



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: ATENJE HAIR TREATMENT N  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, STEARYL ALCOHOL, CETYL ALCOHOL, DIMETHICONE, ALCOHOL, STEAROXYPROPYLTRIMONIUM CHLORIDE, DI-C12-18 ALKYL DIMONIUM CHLORIDE, HONEY, CETYL-PG HYDROXYETHYL PALMITAMIDE, SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL, DIETHYL SEBACATE, POLIANTHES TUBEROSA POLYSACCHARIDE, ARGININE, ETHYLHEXYL ISONONANOATE, HYDROXYETHYLCELLULOSE, DICOCODIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, STEARTRIMONIUM CHLORIDE, LAURETH-5, AMODIMETHICONE, DIMETHICONOL, POLYSILICONE-9, CITRIC ACID, ISOPROPYL ALCOHOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	<5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently



flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Perfume Odor
Viscosity:	Not available
pH:	3.0-4.5 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	No
Type Container	Plastic Tube, Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**



Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	7 November, 2014
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: ATENJE SHAMPOO  
 Product Use: Cosmetics (Shampoo)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
 Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM COCOYL GLUTAMATE, COCAMIDOPROPYL BETAINE, SODIUM C14-16 OLEFIN SULFONATE, PEG-120 METHYL GLUCOSE DIOLEATE, HONEY, HYDROXYLATED LECITHIN, POLYQUATERNIUM-10, POLYQUATERNIUM-52, PEG-2 LAURATE, LAURETH-16, DIPOTASSIUM GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, SODIUM LACTATE, CITRIC ACID, GLYCERIN, SODIUM HYDROXIDE, SODIUM BENZOATE, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
 Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish Viscous Solution  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.5-7.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 7 November, 2014  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: CREDE ER HAIR TREATMENT

Product Use: Hair Treatment

Chemical Family: Mixture

Manufacturer's Name: Milbon Co., Ltd.

Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

Distributor's Name: MILBON USA, Inc.

Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012

Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	HYDROLYZED CASEIN
CETYL ALCOHOL	HYDROLYZED KERATIN
DIMETHICONE	HYDROLYZED COLLAGEN
PERSEA GRATISSIMA (AVOCADO) OIL	NATTO GUM
CETRIMONIUM BROMIDE	SODIUM HYALURONATE
STEARYL ALCOHOL	DISODIUM EDTA
ALCOHOL	METHYLPARABEN
SUCROSE DISTEARATE	FRAGRANCE
SUCROSE LAURATE	

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

## CREDE ER HAIR TREATMENT

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 – FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

Eye Contact: Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

Ingestion: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

Additional Information: Contact Local Poison Control Center.



## CREDE ER HAIR TREATMENT

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	30,000–40,000mPa.s (when manufactured)
pH:	4.2–4.8 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Jar

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/30/2004  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: FARGLAN  
Product Use: Hair Tint (Hair Manicure)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	BUTYLENE GLYCOL
BENZYL ALCOHOL	PEG-45M
ALCOHOL	FRAGRANCE
LACTIC ACID	BENZOPHENONE-4
TALC	
CARBOMER	May contain one or more of the following
POLYACRYLAMIDE	D&C Orange No.4
PPG-38-BUTETH-37	Ext. D&C Violet No.2
C13-14 ISOPARAFFIN	D&C Yellow No.10
AMODIMETHICONE	Ext. D&C Yellow No.7
CETYL ETHYLHEXANOATE	D&C Red No.6
BIS-BUTYLOXYAMODIMETHICONE/PEG-60 COPOLYMER	D&C Red No.33
LAURETH-7	FD&C Blue No.1
POLYSORBATE 80	FD&C Green No.3

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Benzyl Alcohol	100-51-6	–	–	–	1230 mg/kg (Rat-Oral)
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Talk ( Containing no asbestos)	14807-96-6	–	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	–

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses
Respiratory/Type:	If fumes become irritating, use approved respirator.
Gloves/Type:	Rubber/Latex
Clothing/Type:	Rubber apron
Footwear/Type:	Approved safety shoe protection
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Various Colored Cream
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	0.1s <sup>-1</sup> 850–2000 Pa.s (when manufactured)
pH:	2.2–2.5 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Tube

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 24 May, 2010  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: INPHENOM HAIR TREATMENT

Product Use: Hair Treatment

Chemical Family: Mixture

Manufacture's Name: Milbon Co., Ltd.

Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

Distributor's Name: MILBON USA, Inc.

Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012

Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	CHOLESTERYL LANOLATE
CETYL ALCOHOL	QUATERNIUM-33
DIMETHICONE	STEARTRIMONIUM CHLORIDE
STEARTRIMONIUM BROMIDE	DICOCODIMONIUM CHLORIDE
PENTAERYTHRITYL TETRAETHYLHEXANOATE	BUTYLENE GLYCOL
STEARYL ALCOHOL	GLYCERIN
AMINOETHYLAMINOPROPYL DIMETHICONE	BHT
ISOPROPYL ALCOHOL	ETIDRONIC ACID
ROSA CANINA FRUIT OIL	METHYLISOTHIAZOLINONE
GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER	FRAGRANCE
SAXIFRAGA SARMENTOSA EXTRACT	

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	20,000–40,000mPa.s (when manufactured)
pH:	2.5–3.5 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Jar, Aluminum pouch

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 1 Feb, 2010  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: INPHENOM MIST  
Product Use: Leave-on Hair Treatment  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	PHENYLALANINE
BUTYLENE GLYCOL	PROLINE
DIMETHICONOL	CHOLESTEROL
ALCOHOL	QUATERNIUM-18
PCA	QUATERNIUM-33
SODIUM PCA	SODIUM LAURYL SULFATE
ASPARTIC ACID	SODIUM LAURETH SULFATE
ALANINE	PPG-6-DECYLTETRADECETH-30
ARGININE	SODIUM SULFATE
ISOLEUCINE	SODIUM LACTATE
GLYCINE	LACTIC ACID
SERINE	PROPYLENE GLYCOL
THREONINE	ISOPROPYL ALCOHOL
VALINE	PHENOXYETHANOL
HISTIDINE	FRAGRANCE

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.
Ventilation Requirements:	General mechanical sufficient



**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Whitish Clear Solution
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	6.5–7.5
Gravity@25°C:	NAV
Solubility in water:	soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	NAV
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 1 Feb, 2010  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: INPHENOM SHAMPOO  
Product Use: Shampoo  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	CETEARETH-13
SODIUM LAURETH-11 CARBOXYLATE	LAURETH-16
SODIUM LAURETH SULFATE	DIPOTASSIUM GLYCYRRHIZATE
COCAMIDE METHYL MEA	DISODIUM SUCCINOYL GLYCYRRHETINATE
SODIUM COCOAMPHOACETATE	SODIUM ACETATE
LAURAMIDOPROPYL BETAINE	SODIUM LACTATE
PPG-17	AMODIMETHICONE
PEG-30 SOY STEROL	CITRIC ACID
GLYCYRRHIZA GLABRA (LICORICE) ROOT EXTRACT	ACETIC ACID
STYRENE/VP COPOLYMER	GLYCERIN
JOJOBA WAX PEG-80 ESTERS	ALCOHOL
POLYQUATERNIUM-10	SODIUM HYDROXIDE
POLYQUATERNIUM-52	METHYLCHLOROISOTHIAZOLINONE
COCAMIDOPROPYL BETAINE	METHYLISOTHIAZOLINONE
PEG-40 HYDROGENATED CASTOR OIL	FRAGRANCE
PCA ISOSTEARATE	CARTHAMUS TINCTORIUS (SAFFLOWER)
CETEARETH-7	FLOWER EXTRACT

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

Skin Contact:	If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.
Eye Contact:	Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.
Ingestion:	Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.
Inhalation:	If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.

Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish White solution

Odor: Perfume Odor

Solidification Point/ Melting Point: NAV

Viscosity: 2500–4000mPa.s (when manufactured)

pH: 4.5–5.5 (when manufactured)

Gravity@25°C: NAV

Solubility in water: Soluble

Boiling Rate: NAV

Vapor Pressure @25°C: NAV

Vapor Density: NAV

Evaporation Rate: NAV

Pressurized Container: No

Type Container: Plastic Bottle, Aluminum pouch

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 1 Feb, 2010  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

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	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT Liscio High Solution H No.1 Hair Straightener  
Product Use: Hair Straightening  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012  
Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

Water	Potassium Hydroxide
Ammonium Thioglycolate	Pentasodium Pentetate
Cellulose Gum	PEG-20 Sorbitan Cocoate
Diammonium Dithiodiglycolate	Hydrolyzed Collagen PG-Propyl Methysilanediol
Pullulan	Laureth-25
Ethanolamine	Horse Chestnut (Aesculus Hippocastanum) Extract
PEG-75	Fragrance

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)
Ammonia	7664-41-7	50 ppm	35 ppm (STEL)	35 ppm (STEL)	

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**Additional Information:** Contact Local Poison Control Center.

## MILBON STRAIGHT Liscio High Solution H No.1 Hair Straightener

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses
Respiratory/Type:	If fumes become irritating, use approved respirator.
Gloves/Type:	Rubber/Latex
Clothing/Type:	Rubber apron
Footwear/Type:	Approved safety shoe protection
Ventilation Requirements:	General mechanical sufficient

## MILBON STRAIGHT Liscio High Solution H No.1 Hair Straightener

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellowish Clear Solution with Slight Viscosity
Odor:	Perfume Odor, Ammonia Odor, Odor like sulfur dioxide
Solidification Point/ Melting Point:	NAV
Viscosity:	800–1800 mPa·s (when manufactured)
pH:	8.95–9.20 (when manufactured)
Gravity@25°C:	1.08
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame.
Hazardous Decomposition:	Will not occur.
Hazardous Polymerization:	Will not occur.

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/10/2004  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

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	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT Liscio High Solution H No.2 Neutralizer  
Product Use: Hair Straightening  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012  
Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

Water	Phosphoric Acid
Cellulose Gum	Phenoxyethanol
Tamarindus Indica Seed Gum	Pentasodium Pentetate
Hydrogen Peroxide	Etidronic Acid
Ammonium Acryloyldimethyltaurate/VP Copolymer	Ethoxydiglycol
Sclerotium Gum	Disodium Phosphate
Laureth-9	Benzophenone-4

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm (TWA)	1 ppm (TWA)	1,518mg/kg (Rat-Oral)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**Additional Information:** Contact Local Poison Control Center.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses
Respiratory/Type:	If fumes become irritating, use approved respirator.
Gloves/Type:	Rubber/Latex
Clothing/Type:	Rubber apron
Footwear/Type:	Approved safety shoe protection
Ventilation Requirements:	General mechanical sufficient



**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Whitish Clear Solution with Slight Viscosity
Odor:	Characteristic odor
Solidification Point/ Melting Point:	NAV
Viscosity:	5,000–7,000 mPa•s (when manufactured)
pH:	3.40–3.60 (when manufactured)
Gravity@25°C:	1.023
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Reducing Materials, Alkali, Excessive heat or flame.
Hazardous Decomposition:	Contaminated product will generate oxygen gas. Excessive heat will urge to generate oxygen gas.
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/10/2004  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT Liscio High Solution N No.1 Hair Straightener  
Product Use: Hair Straightening  
Chemical Family: Mixture  
Manufacturer's Name: Milbon Co., Ltd.  
Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 - INGREDIENTS**

WATER	PENTASODIUM PENTETATE
AMMONIUM THIOGLYCOLATE	HYDROLYZED COLLAGEN PG-PROPYL METHYLSILANEDIOL
CELLULOSE GUM	LAURETH-25
DIAMMONIUM DITHIODIGLYCOLATE	AESCLUSUS HIPPOCASTANUM (HORSE CHESTNUT) SEED EXTRACT
PULLULAN	POLYSORBATE 20
ETHANOLAMINE	PVP
PEG-75	FRAGRANCE
POTASSIUM HYDROXIDE	

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)
Ammonia	7664-41-7	50 ppm	35 ppm (STEL)	35 ppm (STEL)	
Ammonium thioglycolate	5421-46-5	-	-	-	165 mg/kg (Rat-Intraperitoneal)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

- Skin Contact: May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.
- Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.
- Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.
- Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 - FIRST AID MEASURES**

- Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.
- Eye Contact: Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.
- Ingestion: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C) , Method: NAV
- Auto Ignition Temp. (°C): NAV
- Upper Flammable Limit: NAV
- Lower Flammable Limit: NAV
- Extinguishing Media: Foam, Dry Chemical, CO<sub>2</sub>
- Hazardous Combustion Materials: NAV
- Sensitivity to •Mechanical Impact: NAV
- Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: Approved safety goggles or glasses  
Respiratory/Type: If fumes become irritating, use approved respirator.  
Gloves/Type: Rubber/Latex  
Clothing/Type: Rubber apron  
Footwear/Type: Approved safety shoe protection  
Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish Clear Solution with Slight Viscosity  
Odor: Perfume Odor, Ammonia Odor, Odor like sulfur dioxide  
Solidification Point/ Melting Point: NAV  
Viscosity: 2000-3400 mPa·s (when manufactured)  
pH: 8.85-9.10 (when manufactured)  
Gravity@25°C: 1.079  
Solubility in water: Soluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Bottle

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Oxidizing Materials, Acids, Excessive heat or flame.  
Hazardous Decomposition: Will not occur.  
Hazardous Polymerization: Will not occur.

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - OTHER INFORMATION**

Date of Last Revision:	8 November, 2011
Revision Number:	3rd
Prepared By:	Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT Liscio High Solution N No.2 Neutralizer  
Product Use: Hair Straightening  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012  
Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

Water	Diphenyl Dimethicone
Hydrogen Peroxide	Stearoxymethicone/Dimethicone Copolymer
Tamarindus Indica Seed Gum	Phosphoric Acid
Cellulose Gum	Phenoxyethanol
Ammonium Acryloyldimethyltaurate/VP Copolymer	Pentasodium Pentetate
Sclerotium Gum	Etidronic Acid
Mineral Oil	Ethoxydiglycol
Sorbitan Oleate	Disodium Phosphate
Oleth-12	Benzophenone-4
Oleth-30	Sorbic Acid
Laureth-9	Sodium Hydroxide

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm (TWA)	1 ppm (TWA)	1,518mg/kg (Rat-Oral)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**Additional Information:** Contact Local Poison Control Center.



**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses
Respiratory/Type:	If fumes become irritating, use approved respirator.
Gloves/Type:	Rubber/Latex
Clothing/Type:	Rubber apron
Footwear/Type:	Approved safety shoe protection
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Solution
Odor:	Characteristic odor
Solidification Point/ Melting Point:	NAV
Viscosity:	400–700 mPa·s (when manufactured)
pH:	3.40–3.60 (when manufactured)
Gravity@25°C:	1.013
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Reducing Materials, Alkali, Excessive heat or flame.
Hazardous Decomposition:	Contaminated product will generate oxygen gas. Excessive heat will urge to generate oxygen gas.
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/10/2004  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

## MILBON STRAIGHT Liscio Thermal Solution T No.1 Hair Straightener

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT Liscio Thermal Solution T No.1 Hair Straightener  
 Product Use: Hair Straightening  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012  
 Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

Water	Ethanolamine
Ammonium Thioglycolate	Pentasodium Pentetate
Cellulose Gum	PEG-20 Sorbitan Cocoate
Potassium Hydroxide	Hydrolyzed Collagen PG-Propyl Methysilanediol
Pullulan	Laureth-25
Diammonium Dithiodiglycolate	Horse Chestnut (Aesculus Hippocastanum) Extract
Ammonium Bicarbonate	Fragrance
PEG-75	

**SECTION 2 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)
Ammonia	7664-41-7	50 ppm	35 ppm (STEL)	35 ppm (STEL)	

**SECTION 3 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 4 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**Additional Information:** Contact Local Poison Control Center.

## MILBON STRAIGHT Liscio Thermal Solution T No.1 Hair Straightener

**SECTION 5 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 6 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 7 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses
Respiratory/Type:	If fumes become irritating, use approved respirator.
Gloves/Type:	Rubber/Latex
Clothing/Type:	Rubber apron
Footwear/Type:	Approved safety shoe protection
Ventilation Requirements:	General mechanical sufficient

## MILBON STRAIGHT Liscio Thermal Solution T No.1 Hair Straightener

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellowish Clear Solution with Slight Viscosity
Odor:	Perfume Odor, Ammonia Odor, Odor like sulfur dioxide
Solidification Point/ Melting Point:	NAV
Viscosity:	900–1600 mPa·s (when manufactured)
pH:	9.05–9.30 (when manufactured)
Gravity@25°C:	1.061
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 10 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame.
Hazardous Decomposition:	Will not occur.
Hazardous Polymerization:	Will not occur.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 12 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 13 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 14 – OTHER INFORMATION**

Date of Last Revision: 06/10/2004  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT Liscio Thermal Solution T No.2 Neutralizer  
Product Use: Hair Straightening  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012  
Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

Water	Phosphoric Acid
Cellulose Gum	Phenoxyethanol
Tamarindus Indica Seed Gum	Pentasodium Pentetate
Hydrogen Peroxide	Etidronic Acid
Ammonium Acryloyldimethyltaurate/VP Copolymer	Ethoxydiglycol
Sclerotium Gum	Disodium Phosphate
Laureth-9	Benzophenone-4

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm (TWA)	1 ppm (TWA)	1,518mg/kg (Rat-Oral)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**Additional Information:** Contact Local Poison Control Center.

## MILBON STRAIGHT Liscio Thermal Solution T No.2 Neutralizer

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses
Respiratory/Type:	If fumes become irritating, use approved respirator.
Gloves/Type:	Rubber/Latex
Clothing/Type:	Rubber apron
Footwear/Type:	Approved safety shoe protection
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Whitish Clear Solution with Slight Viscosity
Odor:	Characteristic odor
Solidification Point/ Melting Point:	NAV
Viscosity:	5,000–7,000 mPa•s (when manufactured)
pH:	3.40–3.60 (when manufactured)
Gravity@25°C:	1.023
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Reducing Materials, Alkali, Excessive heat or flame.
Hazardous Decomposition:	Contaminated product will generate oxygen gas. Excessive heat will urge to generate oxygen gas.
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/10/2004  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIO Crystal Neutralizing Lotion  
Product Use: Cosmetics (Hair Straightening)  
Chemical Family: Mixture  
Company Name: Milbon Co., Ltd.  
Company Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, BUTYROSPERMUM PARKII (SHEA) BUTTER, MINERAL OIL, DIPROPYLENE GLYCOL, HYDROGEN PEROXIDE, DISODIUM PHOSPHATE, CETETH-20 PHOSPHATE, CETEARYL ALCOHOL, PENTAERYTHRITYL TETRAETHYLHEXANOATE, DICETYL PHOSPHATE, AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER, LAURETH-25, ETIDRONIC ACID, PHENOXYETHANOL, FRAGRANCE, PHOSPHORIC ACID, CYCLOPENTASILOXANE, ETHOXYDIGLYCOL, CETYL ALCOHOL, DIMETHICONE, T-BUTYL ALCOHOL, BENZOPHENONE-4

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm (TWA)	1 ppm (TWA)	1,518mg/kg (Rat-Oral)	< 2%
t-butyl alcohol	75-65-0	300 mg/m3	300 mg/m3 (TWA)	300 mg/m3 (TWA)	2743 mg/kg (Rat-Oral)	< 0.1%
Phosphoric Acid	7664-38-2	1 mg/m3	3 mg/m3 (STEL)	3 mg/m3 (STEL)	1530 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
Skin Contact: May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately



- laundry the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type:** Approved safety goggles or glasses
- Respiratory/Type:** Not required under normal use
- Gloves/Type:** Rubber/Latex/Nylon gloves
- Clothing/Type:** Rubber/Nylon apron
- Footwear/Type:** Approved safety shoe protection
- Ventilation Requirements:** General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance:** White solution with slight viscosity
- Odor:** Characteristic odor
- Viscosity:** 2000-8000 mPa·s (when manufactured)
- pH:** 2.85-3.10 (when manufactured)
- Gravity@25 °C:** Not available
- Solubility in water:** Miscible
- Pressurized Container:** No
- Type Container:** Plastic Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Reducing Materials, Alkali, Excessive heat or flame
Hazardous Decomposition:	Contaminated product will generate oxygen gas. Excessive heat will urge to generate oxygen gas.
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	1 Sep 2014
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIO Crystal Straightening Cream MILD  
Product Use: Cosmetics (Hair Straightening)  
Chemical Family: Mixture  
Company Name: Milbon Co., Ltd.  
Company Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, AMMONIUM THIOGLYCOLATE, DIAMMONIUM DITHIODIGLYCOLATE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, CETETH-20 PHOSPHATE, CETEARYL ALCOHOL, ETHANOLAMINE, DICETYL PHOSPHATE, BUTYLENE GLYCOL, AMMONIUM BICARBONATE, ISOPROPYL ALCOHOL, PARAFFIN, CETETH-30, FRAGRANCE, DIMETHICONE, GLUTAMIC ACID, CYCLOPENTASILOXANE, HYDROXYETHYL UREA, BEESWAX, PENTASODIUM PENTETATE, AMODIMETHICONE, PHENOXYETHANOL, AESCULUS HIPPOCASTANUM (HORSE CHESTNUT) SEED EXTRACT, ETHOXYDIGLYCOL, ETIDRONIC ACID, DIPOTASSIUM GLYCYRRHIZATE, DIETHYL SEBACATE, CHOLESTERYL LANOLATE, BHT, TOCOPHEROL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ammonium Thioglycolate	5421-46-5	-	-	-	165 mg/kg (Rat-Intraperitoneal)	< 10%
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)	< 2%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m3 (TWA)	10 mg/m3 (TWA)	890 mg/kg (Rat-Oral)	< 0.01%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

Skin Contact: May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.



## SECTION 5 - FIRST AID MEASURES

- Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 - FIRE FIGHTING MEASURES

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

- Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

- Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal Protective Equipment**
- Eye/Type:** Approved safety goggles or glasses
- Respiratory/Type:** Not required under normal use
- Gloves/Type:** Rubber/Latex/Nylon gloves
- Clothing/Type:** Rubber/Nylon apron
- Footwear/Type:** Approved safety shoe protection
- Ventilation Requirements:** General mechanical ventilator

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Pale Yellow – Yellow Cream
- Odor:** Perfume Odor, Ammonia Odor, Odor like sulfur dioxide
- Viscosity:** 2000 – 12000 mPa·s (when manufactured)



pH:	8.25 - 8.50 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	No
Type Container	Plastic Pouch

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 Sep 2014
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value



NIOSH National Institute for Occupational Safety and Health

REL Recommended Exposure Limit

LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIO Crystal Straightening Cream NORMAL  
Product Use: Cosmetics (Hair Straightening)  
Chemical Family: Mixture  
Company Name: Milbon Co., Ltd.  
Company Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, AMMONIUM THIOGLYCOLATE, ETHANOLAMINE, DIAMMONIUM DITHIODIGLYCOLATE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, CETETH-20 PHOSPHATE, CETEARYL ALCOHOL, DICETYL PHOSPHATE, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, PARAFFIN, CETETH-30, FRAGRANCE, DIMETHICONE, AMMONIUM BICARBONATE, GLUTAMIC ACID, CYCLOPENTASILOXANE, HYDROXYETHYL UREA, BEESWAX, PENTASODIUM PENTETATE, AMODIMETHICONE, AESCULUS HIPPOCASTANUM (HORSE CHESTNUT) SEED EXTRACT, PHENOXYETHANOL, ETHOXYDIGLYCOL, ETIDRONIC ACID, PEG-40 CASTOR OIL, GUAIAZULENE, DIPOTASSIUM GLYCYRRHIZATE, DIETHYL SEBACATE, CHOLESTERYL LANOLATE, BHT, TOCOPHEROL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ammonium Thioglycolate	5421-46-5	-	-	-	165 mg/kg (Rat-Intraperitoneal)	< 14%
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)	< 5%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m3 (TWA)	10 mg/m3 (TWA)	890 mg/kg (Rat-Oral)	< 0.01%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

Skin Contact: May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.



## SECTION 5 - FIRST AID MEASURES

- Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 - FIRE FIGHTING MEASURES

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

- Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

- Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal Protective Equipment**
- Eye/Type:** Approved safety goggles or glasses
- Respiratory/Type:** Not required under normal use
- Gloves/Type:** Rubber/Latex/Nylon gloves
- Clothing/Type:** Rubber/Nylon apron
- Footwear/Type:** Approved safety shoe protection
- Ventilation Requirements:** General mechanical ventilator

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Pale Green - Green cream
- Odor:** Perfume Odor, Ammonia Odor, Odor like sulfur dioxide
- Viscosity:** 3000-15000 mPa·s (when manufactured)



pH:	8.90 - 9.15 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	No
Type Container	Plastic Pouch

#### SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

#### SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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#### SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### SECTION 16 - OTHER INFORMATION

Date of Last Revision:	1 Sep 2014
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value



NIOSH    National Institute for Occupational Safety and Health

REL       Recommended Exposure Limit

LD<sup>50</sup>     Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIO Crystal Straightening Cream STRONG  
 Product Use: Cosmetics (Hair Straightening)  
 Chemical Family: Mixture  
 Company Name: Milbon Co., Ltd.  
 Company Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
 Manufacture's Name: MILBON (THAILAND) CO., LTD.  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
 Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, AMMONIUM THIOGLYCOLATE, ETHANOLAMINE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, CETETH-20 PHOSPHATE, CETEARYL ALCOHOL, DIAMMONIUM DITHIODIGLYCOLATE, DICETYL PHOSPHATE, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, PARAFFIN, CETETH-30, FRAGRANCE, DIMETHICONE, AMMONIUM BICARBONATE, GLUTAMIC ACID, CYCLOPENTASILOXANE, HYDROXYETHYL UREA, BEESWAX, PENTASODIUM PENTETATE, AMODIMETHICONE, PHENOXYETHANOL, ETHOXYDIGLYCOL, ETIDRONIC ACID, PEG-40 CASTOR OIL, GUAIAZULENE, DIPOTASSIUM GLYCYRRHIZATE, DIETHYL SEBACATE, CHOLESTERYL LANOLATE, BHT, TOCOPHEROL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ammonium Thioglycolate	5421-46-5	-	-	-	165 mg/kg (Rat-Intraperitoneal)	< 17.8%
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)	< 5%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m3 (TWA)	10 mg/m3 (TWA)	890 mg/kg (Rat-Oral)	< 0.01%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

Skin Contact: May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.



## SECTION 5 - FIRST AID MEASURES

- Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 - FIRE FIGHTING MEASURES

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

- Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

- Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personal Protective Equipment**
- Eye/Type:** Approved safety goggles or glasses
- Respiratory/Type:** Not required under normal use
- Gloves/Type:** Rubber/Latex/Nylon gloves
- Clothing/Type:** Rubber/Nylon apron
- Footwear/Type:** Approved safety shoe protection
- Ventilation Requirements:** General mechanical ventilator

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Pale Blue - Blue cream
- Odor:** Perfume Odor, Ammonia Odor, Odor like sulfur dioxide
- Viscosity:** 4000-15000 mPa·s (when manufactured)



pH:	8.90 - 9.15 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	No
Type Container	Plastic Pouch

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 Sep 2014
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value



NIOSH National Institute for Occupational Safety and Health

REL Recommended Exposure Limit

LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-

## MILBON STRAIGHT LISCIO HAIR PROTECTION CREAM 90

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIO HAIR PROTECTION CREAM 90  
 Product Use: Weakens the effect of “HAIR STRAIGHTENING CREAM”.  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
 Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	ISOPROPYL MYRISTATE
MALIC ACID	LAURYL ALCOHOL
PHOSPHORIC ACID	POLYQUATERNIUM-10
SODIUM LACTATE	STEARTRIMONIUM CHLORIDE
DIMETHICONE	BEHENTRIMONIUM CHLORIDE
STEARYL ALCOHOL	CETETH-30
BEHENYL ALCOHOL	CETETH-40
OLEYL ALCOHOL	DIPOTASSIUM GLYCYRRHIZATE
EUPHORBIA CERIFERA (CANDELILLA) WAX	BUTYLENE GLYCOL
HYDROGENATED RICE BRAN OIL	ISOPROPYL ALCOHOL

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)

## MILBON STRAIGHT LISCIO HAIR PROTECTION CREAM 90

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## MILBON STRAIGHT LISCIO HAIR PROTECTION CREAM 90

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

## MILBON STRAIGHT LISCIO HAIR PROTECTION CREAM 90

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Characteristic odor
Solidification Point/ Melting Point:	NAV
Viscosity:	8000–20000mPa.s (when manufactured)
pH:	1.9–2.1 (when manufactured)
Gravity@25°C:	1.099 (when manufactured)
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Jar

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV



**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 03/14/2005  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIO HEAT PROTECTION SPRAY  
Product Use: Hair Treatment (Leave-on)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	PEG-40 HYDROGENATED CASTOR OIL
ALCOHOL	PPG-10-BUTETH-9
PEG-4	BUTYLENE GLYCOL
PG-HYDROLYZED KERATIN	PEG-8 DIMETHICONE
CHOLESTERYL HEXYL DICARBAMATE PULLULAN	PEG-8 METHYL ETHER DIMETHICONE
DIETHOXYETHYL SUCCINATE	PEG/PPG-20/6 DIMETHICONE
QUATERNIUM-33	FRAGRANCE
CETRIMONIUM CHLORIDE	

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1900 mg/m <sup>3</sup>	1880 mg/m <sup>3</sup> (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

## MILBON STRAIGHT LISCIO HEAT PROTECTION SPRAY

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion, Inhalation

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## MILBON STRAIGHT LISCIO HEAT PROTECTION SPRAY

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

## MILBON STRAIGHT LISCIO HEAT PROTECTION SPRAY

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear solution
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	3.0–4.0 (when manufactured)
Gravity@25°C:	0.994 (when manufactured)
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 03/14/2005  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: LISCIO KNOTEURZERO  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Company Name: Milbon Co., Ltd.  
Company Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, CYCLOPENTASILOXANE, PENTAERYTHRITYL TETRAETHYLHEXANOATE, AMINOETHYLAMINOPROPYL DIMETHICONE, STEARTRIMONIUM CHLORIDE, STEARYL ALCOHOL, ISOSTEARYL GLYCERYL PENTAERYTHRITYL ETHER, PHYTOSTERYL MACADAMIATE, DIMETHICONE, BEHENTRIMONIUM CHLORIDE, ISOPROPYL ALCOHOL, ETIDRONIC ACID, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 2.5-3.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur





Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 1 Sep 2014  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIO SCALP PROTECTION OIL  
Product Use: Protects scalp.  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

CYCLOPENTASILOXANE  
HYDROGENATED POLYISOBUTENE  
DIMETHICONE  
SQUALANE  
MACADAMIA INTEGRIFOLIA SEED OIL

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>

## MILBON STRAIGHT LISCIO SCALP PROTECTION OIL

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## MILBON STRAIGHT LISCIO SCALP PROTECTION OIL

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	75.5°C (Tag Closed Cup)
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

## MILBON STRAIGHT LISCIO SCALP PROTECTION OIL

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear Solution
Odor:	Characteristic odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	NAV
Gravity@25°C:	0.880 (when manufactured)
Solubility in water:	Insoluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Excessive heat or flame.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

## MILBON STRAIGHT LISCIO SCALP PROTECTION OIL

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 03/14/2005  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON ANTI-FRIZZ NO.1  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, STEARYL ALCOHOL, CETYL ALCOHOL, CETETH-40, SORBETH-60 TETRAOLEATE, ETHYLHEXYL ISONONANOATE, STEARTRIMONIUM CHLORIDE, AMODIMETHICONE, HYDROGENATED POLYISOBUTENE, HYDROXYETHYLCELLULOSE, PHENOXYETHANOL, PROPYLENE GLYCOL, ISOPROPYL ALCOHOL, AMINOPROPYL DIMETHICONE, FRAGRANCE, BEHENTRIMONIUM CHLORIDE, DIPROPYLENE GLYCOL, LACTIC ACID, CETRIMONIUM CHLORIDE, TRIDECETH-3, TRIDECETH-15, TREHALOSE, SODIUM LAUROYL LACTYLATE, BUTYLENE GLYCOL, ISOSTEARIC ACID, POLYGLYCERYL-10 MYRISTATE, GLYCERIN, CERAMIDE NG, CHOLESTEROL, CERAMIDE NP, PHYTOSPHINGOSINE, CERAMIDE AP, TOCOPHEROL, XANTHAN GUM, ISOSTEAROYL HYDROLYZED SILK, CARBOMER, CERAMIDE EOP

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.



- Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Personal Protective Equipment

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.

- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 3.5-4.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Pouch





## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON ANTI-FRIZZ NO.2  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, POLYSORBATE 20, PROPYLENE GLYCOL, PHENOXYETHANOL, GLYCERIN, HYDROLYZED KERATIN, DIHYDROXYPROPYL ARGININE HCL, DIPROPYLENE GLYCOL, DISODIUM EDTA, FRAGRANCE, SODIUM LAUROYL SILK AMINO ACIDS, SODIUM PCA, COCAMIDOPROPYL BETAINE, BUTYLENE GLYCOL, SODIUM LACTATE, ARGININE, SODIUM DILAURAMIDOGlutAMIDE LYSINE, ASPARTIC ACID, PCA, POLYQUATERNIUM-65, TREHALOSE, ISOSTEARIC ACID, GLYCINE, ALANINE, SERINE, VALINE, THREONINE, PROLINE, ISOLEUCINE, PHENYLALANINE, HISTIDINE, PHYTIC ACID, ISOSTEAROYL HYDROLYZED SILK, SILVER OXIDE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
—	—	—	—	—	—	—

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Pale Yellow Liquid
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.0-6.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Soluble
- Pressurized Container: No
- Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON ANTI-FRIZZ NO.3  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, HYDROGENATED POLYISOBUTENE, ETHYLHEXYL ISONONANOATE, STEARTRIMONIUM CHLORIDE, GLYCERYL STEARATE SE, BEHENYL ALCOHOL, GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE, AMODIMETHICONE, PROPYLENE GLYCOL, BEESWAX, ISOPROPYL ALCOHOL, FRAGRANCE, POLYSORBATE 20, DIPROPYLENE GLYCOL, SODIUM CHLORIDE, BUTYLENE GLYCOL, TREHALOSE, SODIUM LAUROYL LACTYLATE, ISOSTEARIC ACID, C10-40 ISOALKYLAMIDOPROPYLETHYLDIMONIUM ETHOSULFATE, POLYGLYCERYL-10 MYRISTATE, GLYCERIN, CERAMIDE NG, CHOLESTEROL, PHENOXYETHANOL, CERAMIDE NP, PHYTOSPHINGOSINE, CERAMIDE AP, XANTHAN GUM, ISOSTEAROYL HYDROLYZED SILK, CARBOMER, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, TOCOPHEROL, CERAMIDE EOP

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or



	other skin abnormalities, obtain Doctor's advice immediately.
Eye Contact:	Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
Ingestion:	Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
Inhalation:	If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.
Ventilation Requirements:	General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Perfume Odor
Viscosity:	Not available
pH:	4.2-5.2 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	No
Type Container	Plastic Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON ANTI-FRIZZ NO.4  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, DIPROPYLENE GLYCOL, HYDROXYETHYLCELLULOSE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, BEHENTRIMONIUM METHOSULFATE, PHENOXYETHANOL, PROPYLENE GLYCOL, C10-40 ISOALKYLAMIDOPROPYLETHYLDIMONIUM ETHOSULFATE, FRAGRANCE, ISOPROPYL ALCOHOL, SODIUM LAUROYL LACTYLATE, BUTYLENE GLYCOL, ISOSTEARIC ACID, POLYGLYCERYL-10 MYRISTATE, GLYCERIN, CERAMIDE NG, CHOLESTEROL, CERAMIDE NP, PHYTOSPHINGOSINE, CERAMIDE AP, XANTHAN GUM, ISOSTEAROYL HYDROLYZED SILK, CARBOMER, TOCOPHEROL, CERAMIDE EOP

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is





removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 4.0-5.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON BLOWOUT PRIMER COARSE HAIR  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, CYCLOPENTASILOXANE, DIMETHICONE, DIPROPYLENE GLYCOL, C12-15 ALKYL BENZOATE, ALCOHOL, LAURETH-9, TAMARINDUS INDICA SEED GUM, STEARTRIMONIUM CHLORIDE, CETETH-150, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROLYZED ADANSONIA DIGITATA EXTRACT, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, POLYQUATERNIUM-65, ADANSONIA DIGITATA SEED OIL, ARGANIA SPINOSA KERNEL OIL, HYDROLYZED COLLAGEN, ISOSTEARIC ACID, DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER, HYDROXYETHYLCELLULOSE, LAURYL BETAINE, QUATERNIUM-80, LAURETH-2, PEG-11 METHYL ETHER DIMETHICONE, AMINOPROPYL DIMETHICONE, AMINOETHYLAMINOPROPYL DIMETHICONE, DIMETHICONOL, PROPYLENE GLYCOL, BUTYLENE GLYCOL, AMINOMETHYL PROPANOL, PHENOXYETHANOL, LACTIC ACID, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 3.5-5.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic bottle

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available



Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 8 February, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON BLOWOUT PRIMER FINE HAIR  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, CYCLOPENTASILOXANE, DIMETHICONE, DIPROPYLENE GLYCOL, TAMARINDUS INDICA SEED GUM, STEARTRIMONIUM CHLORIDE, LAURETH-9, LAURETH-2, CETETH-150, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROLYZED ADANSONIA DIGITATA EXTRACT, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, POLYQUATERNIUM-65, ADANSONIA DIGITATA SEED OIL, ARGANIA SPINOSA KERNEL OIL, CERAMIDE 2, CHOLESTEROL, DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER, HYDROXYETHYLCELLULOSE, POLYGLYCERYL-10 MYRISTATE, ISOSTEARIC ACID, LAURYL BETAINE, QUATERNIUM-80, PEG-11 METHYL ETHER DIMETHICONE, AMINOPROPYL DIMETHICONE, AMINOETHYLAMINOPROPYL DIMETHICONE, PROPYLENE GLYCOL, BUTYLENE GLYCOL, GLYCERIN, ALCOHOL, LACTIC ACID, AMINOMETHYL PROPANOL, TOCOPHEROL, PHENOXYETHANOL, C12-15 ALKYL BENZOATE, DIMETHICONOL, METHYLPARABEN, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 3.5-5.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic bottle

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available



Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 8 February, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON CLEANSING SPA GEL CITRUS  
Product Use: Cosmetics (Scalp Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, GLYCERIN, PEG-15 GLYCERYL STEARATE, HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL, SQUALANE, ISOSTEAROYL HYDROLYZED SILK, SODIUM ACETYLATED HYALURONATE, HYDROLYZED HYALURONIC ACID, PEG-90M, MENTHYL PCA, MENTHOL, ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER, CARBOMER, DIOSPYROS KAKI FRUIT EXTRACT, DIHYDROXYPROPYL ARGININE HCL, DIPOTASSIUM GLYCYRRHIZATE, SODIUM CARBONATE, SODIUM BICARBONATE, ISOSTEARIC ACID, BUTYLENE GLYCOL, POTASSIUM HYDROXIDE, TOCOPHEROL, DISODIUM EDTA, CHLORAMINE T, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Potassium Hydroxide	1310-58-3		2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>		< 0.17%
Glycerin	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)	< 10%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Gel
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.1-7.1 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 Apr., 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON CLEANSING SPA GEL ROSE  
Product Use: Cosmetics (Scalp Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, GLYCERIN, PEG-15 GLYCERYL STEARATE, HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL, SQUALANE, ISOSTEAROYL HYDROLYZED SILK, SODIUM ACETYLATED HYALURONATE, HYDROLYZED HYALURONIC ACID, PEG-90M, MENTHYL PCA, MENTHOL, ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER, CARBOMER, DIOSPYROS KAKI FRUIT EXTRACT, DIHYDROXYPROPYL ARGININE HCL, DIPOTASSIUM GLYCYRRHIZATE, SODIUM CARBONATE, SODIUM BICARBONATE, ISOSTEARIC ACID, BUTYLENE GLYCOL, POTASSIUM HYDROXIDE, TOCOPHEROL, DISODIUM EDTA, CHLORAMINE T, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Potassium Hydroxide	1310-58-3		2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>		< 0.17%
Glycerin	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)	< 10%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Gel
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.1-7.1 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 Apr., 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON CLEANSING SPA GEL VANILLA  
Product Use: Cosmetics (Scalp Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, GLYCERIN, PEG-15 GLYCERYL STEARATE, HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL, SQUALANE, ISOSTEAROYL HYDROLYZED SILK, SODIUM ACETYLATED HYALURONATE, HYDROLYZED HYALURONIC ACID, PEG-90M, MENTHYL PCA, MENTHOL, ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER, CARBOMER, DIOSPYROS KAKI FRUIT EXTRACT, DIHYDROXYPROPYL ARGININE HCL, DIPOTASSIUM GLYCYRRHIZATE, SODIUM CARBONATE, SODIUM BICARBONATE, ISOSTEARIC ACID, BUTYLENE GLYCOL, POTASSIUM HYDROXIDE, TOCOPHEROL, DISODIUM EDTA, CHLORAMINE T, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Potassium Hydroxide	1310-58-3		2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>		< 0.17%
Glycerin	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)	< 10%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Gel
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.1-7.1 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable





Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 Apr., 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON DEFRIZZING SHAMPOO  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAUROYL METHYLAMINOPROPIONATE, COCAMIDOPROPYL BETAINE, TEA-COCOYL GLUTAMATE, COCAMIDE METHYL MEA, DISODIUM COCOYL GLUTAMATE, DIPROPYLENE GLYCOL, PROPYLENE GLYCOL, ISOSTEAROYL HYDROLYZED SILK, POTASSIUM COCOYL HYDROLYZED COLLAGEN, PEG-150, ISOSTEARIC ACID, TETRASODIUM ETIDRONATE, CITRIC ACID, COCAMIDE MEA, SODIUM COCOYL GLUTAMATE, PHENOXYETHANOL, POLYQUATERNIUM-10, PEG-7 GLYCERYL COCOATE, SODIUM BENZOATE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish clear liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.5 - 7.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON DEFRIZZING TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, HYDROGENATED POLYISOBUTENE, CETYL ALCOHOL, DIPROPYLENE GLYCOL, DIMETHICONE, STEARTRIMONIUM CHLORIDE, CETEARYL ALCOHOL, PROPYLENE GLYCOL, C10-40 ISOALKYLAMIDOPROPYLETHYLDIMONIUM ETHOSULFATE, ISOSTEAROYL HYDROLYZED SILK, SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL, AMINOPROPYL DIMETHICONE, AMODIMETHICONE, ISOSTEARIC ACID, PROPYLENE GLYCOL ISOSTEARATE, ISOPROPYL ALCOHOL, ALCOHOL, CITRIC ACID, SODIUM CITRATE, PCA ETHYL COCOYL ARGINATE, CHOLESTEROL, DICOCODIMONIUM CHLORIDE, CETETH-20, PHENOXYETHANOL, BEHENTRIMONIUM METHOSULFATE, POLYQUATERNIUM-10, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.



- Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.

- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 4.0 - 5.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube, Plastic Jar, Plastic Bottle, Aluminum Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	17 August, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON HUMIDITY BLOCKING OIL  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

CYCLOPENTASILOXANE, DIMETHICONE, DIMETHICONOL, ARGANIA SPINOSA KERNEL OIL, ADANSONIA DIGITATA SEED OIL, SQUALANE, BUTYROSPERMUM PARKII (SHEA BUTTER) OIL, SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL, ISOSTEAROYL HYDROLYZED SILK, MINERAL OIL, ISOSTEARIC ACID, TRISILOXANE, C12-15 ALKYL BENZOATE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.





## SECTION 6 - FIRE FIGHTING MEASURES

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Foam, Dry Chemical, CO<sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: Not available  
Gravity@25 °C: 0.95 - 0.97  
Solubility in water: Insoluble  
Pressurized Container: No  
Type Container: Plastic Bottle

## SECTION 11 - REACTIVITY DATA

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.



### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	17 August, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON HYDRATING TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, GLYCERIN, STEARYL ALCOHOL, ISOSTEAROYL HYDROLYZED SILK, SODIUM ACETYLATED HYALURONATE, SODIUM HYALURONATE, MENTHYL PCA, PEG-14M, CAMELLIA SINENSIS LEAF EXTRACT, CALENDULA OFFICINALIS FLOWER EXTRACT, CITRUS AURANTIUM AMARA (BITTER ORANGE) PEEL EXTRACT, DIISOPROPYL ADIPATE, OCTYLDODECANOL, SQUALANE, PETROLATUM, DIPOTASSIUM GLYCYRRHIZATE, STEARTRIMONIUM CHLORIDE, CETRIMONIUM CHLORIDE, BEHENTRIMONIUM CHLORIDE, ISOSTEARIC ACID, LACTIC ACID, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, ALCOHOL, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Glycerin Mist	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)	≤ 2 %
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	< 0.008%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.



- Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Personal Protective Equipment

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 3.7-5.7 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube, Plastic Bottle, Plastic Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	5 Apr., 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



**m i l b o n**  
C O M P A N Y L I M I T E D

<http://www.milbon.co.jp>

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## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON LUMINOUS BODIFYING OIL  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

CYCLOPENTASILOXANE, DIMETHICONE, ADANSONIA DIGITATA SEED OIL, ARGANIA SPINOSA KERNEL OIL, ISOSTEAROYL HYDROLYZED SILK, ISOSTEAROYL HYDROLYZED COLLAGEN, SQUALANE, ISOSTEARIC ACID, MINERAL OIL, DIMETHICONOL, TOCOPHEROL, FRAGRANCE, CI 47000

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
-	-	-	-	-	-	-

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.



## SECTION 6 - FIRE FIGHTING MEASURES

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Foam, Dry Chemical, CO<sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: Not applicable  
Gravity@25 °C: 0.95-0.97 (when manufactured)  
Solubility in water: Insoluble  
Pressurized Container: No  
Type Container: Plastic Bottle

## SECTION 11 - REACTIVITY DATA

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.





Reproductive Effect: Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	20 May, 2016
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON LUMINOUS SOFTENING OIL  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

CYCLOPENTASILOXANE, DIMETHICONE, DIMETHICONOL, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, ADANSONIA DIGITATA SEED OIL, ARGANIA SPINOSA KERNEL OIL, ISOSTEARIC ACID, MINERAL OIL, C12-15 ALKYL BENZOATE, TOCOPHEROL, FRAGRANCE, CI 47000

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
-	-	-	-	-	-	-

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.



## SECTION 6 - FIRE FIGHTING MEASURES

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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## SECTION 8 - HANDLING AND STORAGE

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.

Ventilation Requirements:	General mechanical ventilator
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## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid
Odor:	Perfume Odor
Viscosity:	Not available
pH:	Not applicable
Gravity@25 °C:	0.95-0.97 (when manufactured)
Solubility in water:	Insoluble
Pressurized Container	No
Type Container	Plastic Bottle

## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.



Reproductive Effect: Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	20 May, 2016
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOISTURE NO.1  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, DIPROPYLENE GLYCOL, ALCOHOL, PEG-4, ISOSTEAROYL HYDROLYZED SILK, BIS-ETHOXYDIGLYCOL  
CYCLOHEXANE 1,4-DICARBOXYLATE, ISOSTEARIC ACID, POLYSORBATE 20, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	< 6%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if



symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear Liquid
Odor:	Perfume Odor
Viscosity:	Not available
pH:	3.0 - 5.0 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.



Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 8 February, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOISTURE NO.2  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, GLYCERIN, AMODIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, HYDROXYPROPYLTRIMONIUM HYDROLYZED KERATIN, HYDROGENATED LECITHIN, PCA, SODIUM PCA, ASPARTIC ACID, ALANINE, ARGININE, ISOLEUCINE, GLYCINE, SERINE, THREONINE, VALINE, HISTIDINE, PHENYLALANINE, PROLINE, DIHYDROXYPROPYL ARGININE HCL, DIISOPROPYL ADIPATE, PHYTOSTERYL ISOSTEARATE, ISOSTEARIC ACID, DIETHYL SEBACATE, MINERAL OIL, SODIUM LACTATE, SODIUM TRIDECETH-4 CARBOXYLATE, DICOCODIMONIUM CHLORIDE, STEARTRIMONIUM CHLORIDE, CETRIMONIUM CHLORIDE, POLYGLYCERYL-10 LAURATE, PEG-60 HYDROGENATED CASTOR OIL, BUTYLENE GLYCOL, PHENOXYETHANOL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
-	-	-	-	-	-	-

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If





vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.  
Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use.  
Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Liquid  
Odor: Odorless or Slightly Characteristic Odor  
Viscosity: Not available  
pH: 6.0-8.4 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur



## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	9 February 2016,
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOISTURE NO.3 TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, OLETH-2, AMODIMETHICONE, BUTYLENE GLYCOL, OCTYLDODECANOL, STEARTRIMONIUM CHLORIDE, SORBETH-60 TETRAOLEATE, DIMETHICONE, GLYCERYL STEARATE SE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, CERAMIDE 2, HYDROGENATED LECITHIN, SODIUM HYALURONATE, CHOLESTEROL, SODIUM PCA, ALANINE, ARGININE, GLYCINE, GLUTAMIC ACID, SERINE, THREONINE, PROLINE, BETAINE, LYSINE, SORBITOL, QUATERNIUM-33, TREHALOSE, BEHENYL ALCOHOL, ISOSTEARIC ACID, BEHENTRIMONIUM CHLORIDE, POLYGLYCERYL-10 MYRISTATE, LACTIC ACID, GLYCERIN, ISOPROPYL ALCOHOL, TOCOPHEROL, PHENOXYETHANOL, FRAGRANCE, CARAMEL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse



mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment  
Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.  
Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Brown Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 3.5-4.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur



## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOISTURE NO.4  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, GLYCERIN, BUTYLENE GLYCOL, ISOSTEAROYL HYDROLYZED SILK, GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER, PCA ETHYL COCOYL ARGINATE, ISOSTEARIC ACID, PHENOXYETHANOL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
-	-	-	-	-	-	-

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if



symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Slight Turbidity Liquid
Odor:	Odorless or Slightly Characteristic Odor
Viscosity:	Not available
pH:	4.0-5.5 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.



Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 9 February 2016,  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOISTURE NO.5  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, DIMETHICONE, OLETH-2, BUTYLENE GLYCOL, OCTYLDODECANOL, HYDROGENATED POLYISOBUTENE, BEHENYL ALCOHOL, STEARTRIMONIUM CHLORIDE, GLYCERYL STEARATE SE, SORBETH-60 TETRAOLEATE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, AMPD-ISOSTEAROYL HYDROLYZED COLLAGEN, SODIUM HYALURONATE, HYDROGENATED LECITHIN, QUATERNIUM-33, ISOSTEARIC ACID, BEHENTRIMONIUM CHLORIDE, AMODIMETHICONE, ALCOHOL, ISOPROPYL ALCOHOL, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.5-6.4 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 9 February 2016,  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOISTURE NO.6  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, AMODIMETHICONE, OLETH-2, BUTYLENE GLYCOL, OCTYLDODECANOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, SORBETH-60 TETRAOLEATE, GLYCERYL STEARATE SE, HYDROGENATED POLYISOBUTENE, BEHENYL ALCOHOL, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, CERAMIDE 2, SODIUM HYALURONATE, HYDROGENATED LECITHIN, CHOLESTEROL, SODIUM PCA, ALANINE, ARGININE, GLYCINE, GLUTAMIC ACID, SERINE, THREONINE, PROLINE, BETAINE, LYSINE, SORBITOL, QUATERNIUM-33, TREHALOSE, ISOSTEARIC ACID, POLYGLYCERYL-10 MYRISTATE, BEHENTRIMONIUM CHLORIDE, LACTIC ACID, GLYCERIN, ISOPROPYL ALCOHOL, BHT, TOCOPHEROL, DISODIUM EDTA, PHENOXYETHANOL, FRAGRANCE, CAMEL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)	< 0.2%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Brown Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 3.5-4.4 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	9 February 2016,
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOLDING WAX 3  
Product Use: Cosmetics (Hair Styling)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ETHYLHEXANOATE, EUPHORBIA CERIFERA (CANDELILLA) WAX, CETETH-20, STEARIC ACID, PROPYLENE GLYCOL, CETETH-6, STEARYL ALCOHOL, AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE COPOLYMER, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, ALCOHOL, CARBOMER, PEG-14M, PEG-12 DIMETHICONE, PEG-45 STEARATE, SODIUM PHOSPHATE, PHOSPHORIC ACID, AMINOMETHYL PROPANOL, ETIDRONIC ACID, PHENOXYETHANOL, METHYLPARABEN, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1%
Phosphoric Acid	7664-38-2	1 mg/m3	3 mg/m3 (STEL)	3 mg/m3 (STEL)	1530 mg/kg (Rat-Oral)	< 0.2%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse



mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 6.5-7.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur





## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	14 June, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOLDING WAX 5  
Product Use: Cosmetics (Hair Styling)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, MICROCRYSTALLINE WAX, CETYL ETHYLHEXANOATE, EUPHORBIA CERIFERA (CANDELILLA) WAX, CYCLOPENTASILOXANE, CETETH-20, STEARIC ACID, PROPYLENE GLYCOL, CETETH-6, ALCOHOL, STEARYL ALCOHOL, AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE COPOLYMER, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, KAOLIN, DIATOMACEOUS EARTH, CARBOMER, SODIUM PHOSPHATE, PEG-14M, PEG-12 DIMETHICONE, PEG-45 STEARATE, PHOSPHORIC ACID, AMINOMETHYL PROPANOL, ETIDRONIC ACID, PHENOXYETHANOL, METHYLPARABEN, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1.5%
Silica (DIATOMACEOUS EARTH)	61790-53-2	80 mg/m <sup>3</sup>	-	6 mg/m <sup>3</sup>	-	< 0.6%
Kaolin	1332-58-7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	-	-	< 0.6%
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)	< 0.2%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or



	other skin abnormalities, obtain Doctor's advice immediately.
Eye Contact:	Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
Ingestion:	Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
Inhalation:	If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment	
Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.
Ventilation Requirements:	General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Pale Yellow Cream
Odor:	Perfume Odor
Viscosity:	Not available
pH:	6.5-6.9 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	No
Type Container	Plastic Tube



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	14 June, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON MOLDING WAX 7  
Product Use: Cosmetics (Hair Styling)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, EUPHORBIA CERIFERA (CANDELILLA) WAX, CETYL ETHYLHEXANOATE, CYCLOPENTASILOXANE, MICROCRYSTALLINE WAX, CETETH-20, STEARIC ACID, PROPYLENE GLYCOL, CETETH-6, ALCOHOL, STEARYL ALCOHOL, AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE COPOLYMER, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, KAOLIN, CARBOMER, SODIUM PHOSPHATE, PEG-12 DIMETHICONE, PEG-45 STEARATE, PHOSPHORIC ACID, AMINOMETHYL PROPANOL, ETIDRONIC ACID, PHENOXYETHANOL, METHYLPARABEN, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1.5%
Kaolin	1332-58-7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	-	-	< 0.6%
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)	< 0.2%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Pale Yellow Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 6.3-6.8 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	14 June, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON PURIFYING GEL SHAMPOO  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH SULFATE, PPG-2 COCAMIDE, LAURAMIDOPROPYL BETAINE, MYRISTAMIDOPROPYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, HYDROLYZED HYALURONIC ACID, MENTHYL PCA, MENTHOL, POLYQUATERNIUM-10, POLYQUATERNIUM-52, SODIUM LAUROYL METHYLAMINOPROPIONATE, SODIUM LAURETH-11 CARBOXYLATE, LAURETH-16, DIHYDROXYPROPYL ARGININE HCL, DIOSPYROS KAKI FRUIT EXTRACT, SODIUM CARBONATE, SODIUM BICARBONATE, DIPOTASSIUM GLYCYRRHIZATE, ISOSTEARIC ACID, CITRIC ACID, BUTYLENE GLYCOL, POTASSIUM HYDROXIDE, BHT, DISODIUM EDTA, ETIDRONIC ACID, PENTASODIUM PENTETATE, CHLORAMINE T, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Potassium Hydroxide	1310-58-3		2 mg/m3	2 mg/m3		≤ 0.01%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is





removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Clear Solution
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.8-7.8 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube, Plastic Bottle, Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 Apr., 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPAIR NO.1  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, HYDROXYPROPYL STARCH PHOSPHATE, DIISOPROPYL ADIPATE, STEARYL ALCOHOL, BEHENTRIMONIUM CHLORIDE, PHENOXYETHANOL, CETYL PALMITATE, ISOPROPYL ALCOHOL, FRAGRANCE, SORBETH-60 TETRAOLEATE, DIHYDROXYPROPYL ARGININE HCL, ISOSTEARIC ACID, SODIUM HYALURONATE, LAURYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, BUTYLENE GLYCOL, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, AMINOMETHYL PROPANOL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 4.0-6.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available



Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 21 April, 2017  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPAIR NO.2  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, LANOLIN, DIMETHICONE, BEHENTRIMONIUM CHLORIDE, RICINUS COMMUNIS (CASTOR) SEED OIL, PROPANEDIOL, AMODIMETHICONE, PHENYL TRIMETHICONE, AMINOETHYLAMINOPROPYL DIMETHICONE, POLYSILICONE-14, ISOPROPYL ALCOHOL, FRAGRANCE, PHENOXYETHANOL, HYDROLYZED KERATIN, BEHENTRIMONIUM METHOSULFATE, C10-40 ISOALKYLAMIDOPROPYLETHYLDIMONIUM ETHOSULFATE, HYDROLYZED KERATIN PG-PROPYL METHYLSILANEDIOL, BUTYLENE GLYCOL, ISOSTEARIC ACID, POLYGLYCERYL-10 MYRISTATE, GLYCERIN, CERAMIDE NG, LAURYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, CHOLESTEROL, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, AMINOMETHYL PROPANOL, TOCOPHEROL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.



- Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Yellowish White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 6.5-8.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPAIR NO.3  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, AMODIMETHICONE, STEARYL ALCOHOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, ISOPROPYL ALCOHOL, FRAGRANCE, DICOCODIMONIUM CHLORIDE, AMINOMETHYL PROPANOL, ISOSTEARIC ACID, ARGININE, LAURYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, BUTYLENE GLYCOL, PHENOXYETHANOL, CARBOXYMETHYL ALANYL DISULFIDE KERATIN

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 8.0-10.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 21 April, 2017  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPAIR NO.4 COARSE HAIR TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, STEARYL ALCOHOL, STEARTRIMONIUM CHLORIDE, LIMNANTHES ALBA (MEADOWFOAM) SEED OIL, OLEA EUROPAEA (OLIVE) FRUIT OIL, HYDROXYETHYLCELLULOSE, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, ISOSTEAROYL HYDROLYZED SILK, POLY(TRIPEPTIDE-6), ISOSTEARIC ACID, LAURYL BETAINE, DICOCODIMONIUM CHLORIDE, AMODIMETHICONE, LACTIC ACID, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, TOCOPHEROL, AMINOMETHYL PROPANOL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse



mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.5-7.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur



## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPAIR NO.4 FINE HAIR  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 - INGREDIENTS**

WATER, DIMETHICONE, PROPANEDIOL, HYDROXYETHYLCELLULOSE, STEARTRIMONIUM CHLORIDE, CETYL ALCOHOL, PHENOXYETHANOL, ETHYLHEXYL ISONONANOATE, FRAGRANCE, ISOPROPYL ALCOHOL, BEHENTRIMONIUM METHOSULFATE, DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER, C10-40 ISOALKYLAMIDOPROPYLETHYLDIMONIUM ETHOSULFATE, ISOSTEARIC ACID, LAURYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, BUTYLENE GLYCOL, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, AMINOMETHYL PROPANOL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 4.0-6.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable





Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPAIR NO.5 COARSE HAIR  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, AMODIMETHICONE, OLETH-2, PROPANEDIOL, OCTYLDODECANOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, SORBETH-60 TETRAOLEATE, GLYCERYL STEARATE SE, HYDROGENATED POLYISOBUTENE, BEHENYL ALCOHOL, ISOPROPYL ALCOHOL, TREHALOSE, LACTIC ACID, PHENOXYETHANOL, FRAGRANCE, BEHENTRIMONIUM CHLORIDE, HYDROXYETHYLCELLULOSE, BHT, SODIUM PCA, SODIUM LACTATE, HYDROGENATED LECITHIN, DISODIUM EDTA, ARGININE, C10-40 ISOALKYLAMIDOPROPYLETHYLDIMONIUM ETHOSULFATE, ASPARTIC ACID, PCA, BUTYLENE GLYCOL, SODIUM HYALURONATE, CARAMEL, ISOSTEARIC ACID, GLYCINE, ALANINE, SERINE, VALINE, THREONINE, PROLINE, ISOLEUCINE, PHENYLALANINE, HISTIDINE, LAURYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, AMINOMETHYL PROPANOL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m3 (TWA)	10 mg/m3 (TWA)	890 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm,



gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

**Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

**Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

**Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

**Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.  
**Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal Protective Equipment**

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

**Ventilation Requirements:** General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 3.0-5.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No



Type Container Plastic Tube

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPAIR NO.5 FINE HAIR  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND  
Distributor's Name: MILBON USA, Inc.  
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### **SECTION 2 – INGREDIENTS**

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### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m3 (TWA)	10 mg/m3 (TWA)	890 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm,



gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

**Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

**Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

**Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal Protective Equipment**

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.

**Ventilation Requirements:** General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellowish White Cream
Odor:	Perfume Odor
Viscosity:	Not available
pH:	3.0-5.0 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	No



Type Container

Plastic Tube

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	21 April, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPLENISHING SHAMPOO  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH-11 CARBOXYLATE, SODIUM LAURETH SULFATE, COCAMIDE METHYL MEA, SODIUM COCOAMPHOACETATE, LAURAMIDOPROPYL BETAINE, PPG-17, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, PEG-30 SOY STEROL, GLYCYRRHIZA GLABRA (LICORICE) ROOT EXTRACT, ISOSTEARIC ACID, STYRENE/VP COPOLYMER, JOJOBA WAX PEG-80 ESTERS, PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE, POLYQUATERNIUM-10, POLYQUATERNIUM-52, COCAMIDOPROPYL BETAINE, CETEARETH-7, CETEARETH-13, LAURETH-16, DIPOTASSIUM GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, AMODIMETHICONE, SODIUM ACETATE, CITRIC ACID, ACETIC ACID, GLYCERIN, ALCOHOL, SODIUM HYDROXIDE, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE, CARTHAMUS TINCTORIUS (SAFFLOWER) FLOWER EXTRACT

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	< 1%
Acetic Acid	64-19-7	10 ppm	15 ppm (STEL)	15 ppm (STEL)		<0.1%
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)	<0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not Applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or





	other skin abnormalities, obtain Doctor's advice immediately.
Eye Contact:	Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
Ingestion:	Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
Inhalation:	If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 - FIRE FIGHTING MEASURES

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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## SECTION 8 - HANDLING AND STORAGE

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.
Ventilation Requirements:	General mechanical ventilator

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellowish White Liquid
Odor:	Perfume Odor
Viscosity:	Not available
pH:	4.5 - 5.5 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Plastic Bottle, Aluminum Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	4 February, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON REPLENISHING TREATMENT  
 Product Use: Cosmetics (Hair Treatment)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, DIMETHICONE, STEARYL ALCOHOL, PENTAERYTHRITYL TETRAETHYLHEXANOATE, STEARTRIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, ROSA CANINA FRUIT OIL, AMODIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER, SAXIFRAGA SARMENTOSA EXTRACT, CHOLESTERYL LANOLATE, ISOSTEARIC ACID, QUATERNIUM-33, DICOCODIMONIUM CHLORIDE, AMINOETHYLAMINOPROPYL DIMETHICONE, BUTYLENE GLYCOL, GLYCERIN, ISOPROPYL ALCOHOL, BHT, ETIDRONIC ACID, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
 Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellowish Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.0-5.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube, Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 8 February 2016,  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON RESTRATIVE SHAMPOO  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH SULFATE, DIPROPYLENE GLYCOL, ISOSTEARAMIDOPROPYL BETAINE, SODIUM C14-16 OLEFIN SULFONATE, SODIUM LAURETH-6 CARBOXYLATE, COCAMIDOPROPYL BETAINE, COCAMIDE METHYL MEA, GLYCOL DISTEARATE, POLIANTHES TUBEROSA POLYSACCHARIDE, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, POTASSIUM COCOYL HYDROLYZED KERATIN, ISOSTEAROYL HYDROLYZED SILK, SAXIFRAGA SARMENTOSA EXTRACT, DIHEXYLDECYL LAUROYL GLUTAMATE, PHYTOSTERYL/OCTYLDODECYL LAUROYL GLUTAMATE, HYDROGENATED LECITHIN, POLYQUATERNIUM-10, POLYQUATERNIUM-51, POLYQUATERNIUM-52, ISOSTEARIC ACID, LAURYL BETAINE, SODIUM LAUROYL ASPARTATE, SODIUM COCOYL ISETHIONATE, PCA ETHYL COCOYL ARGINATE, PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE, LAURETH-16, POLYGLYCERYL-10 LAURATE, DIPOTASSIUM GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, SODIUM CHLORIDE, MALIC ACID, GLYCERIN, BUTYLENE GLYCOL, ALCOHOL, POTASSIUM HYDROXIDE, AMINOMETHYL PROPANOL, PHENOXYETHANOL, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Potassium Hydroxide	1310-58-3		2 mg/m3	2 mg/m3		< 0.1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm,



gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

**Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

**Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

**Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

**Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.  
**Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal Protective Equipment**

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

**Ventilation Requirements:** General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Pearly Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 6.0 - 7.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Bottle, Plastic Bottle, Aluminum Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	17 August, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON RESTRATIVE TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, DIMETHICONE, BEHENTRIMONIUM CHLORIDE, PROPYLENE GLYCOL, AMODIMETHICONE, STEARYL ALCOHOL, OLEA EUROPAEA (OLIVE) FRUIT OIL, CHOLESTERYL LANOLATE, ISOSTEAROYL HYDROLYZED SILK, HYDROXYETHYLCELLULOSE, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, LAURDIMONIUM HYDROXYPROPYL HYDROLYZED KERATIN, ISOSTEARIC ACID, LAURYL BETAINE, STEARTRIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, DICOCODIMONIUM CHLORIDE, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, ALCOHOL, AMINOMETHYL PROPANOL, ETIDRONIC ACID, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently



flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 6.5 - 7.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube, Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	17 August, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.1 COARSE HAIR  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, AMODIMETHICONE, CETYL ALCOHOL, STEARYL ALCOHOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, OLEA EUROPAEA (OLIVE) FRUIT OIL, ARGININE, ISOSTEARIC ACID, PETROLATUM, PEG-45M, DICOCODIMONIUM CHLORIDE, ISOPROPYL ALCOHOL, AMINOMETHYL PROPANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 7.4-10.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	9 February 2016,
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.1 FINE HAIR  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, AMODIMETHICONE, CETYL ALCOHOL, STEARYL ALCOHOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, ARGININE, ISOSTEARIC ACID, CETYL-PG HYDROXYETHYL PALMITAMIDE, DICOCODIMONIUM CHLORIDE, LAURETH-5, ISOPROPYL ALCOHOL, AMINOMETHYL PROPANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 7.4-10.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test





Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	9 February 2016,
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.1 MEDIUM HAIR  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, AMODIMETHICONE, CETYL ALCOHOL, STEARYL ALCOHOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, ISOSTEARIC ACID, HYDROLYZED COLLAGEN, POLIANTHES TUBEROSA POLYSACCHARIDE, ARGININE, DICOCODIMONIUM CHLORIDE, ISOPROPYL ALCOHOL, ALCOHOL, AMINOMETHYL PROPANOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If



vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.  
Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use.  
Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 7.4-10.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur



## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	9 February 2016,
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.2  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, ETHYLHEXYL ISONONANOATE, DIMETHICONE, ISOPROPYL MYRISTATE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, ISOSTEARIC ACID, PPG-2-BUTETH-1, C13-14 ISOPARAFFIN, HYDROXYPROPYL METHYLCELLULOSE STEAROXY ETHER, POLYACRYLAMIDE, PEG-20 HYDROGENATED CASTOR OIL, PEG-60 HYDROGENATED CASTOR OIL, SORBETH-40 TETRAOLEATE, POLYSORBATE 80, LAURETH-7, PROPYLENE GLYCOL, ISOPROPYL ALCOHOL, ALCOHOL, TOCOPHEROL, PHENOXYETHANOL, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.0-7.4 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 9 February 2016,  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.4 COARSE HAIR MASQUE  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, AMINOETHYLAMINOPROPYL DIMETHICONE, STEARTRIMONIUM CHLORIDE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROLYZED COLLAGEN, OLEA EUROPAEA (OLIVE) FRUIT OIL, PENTAERYTHRITYL TETRAETHYLHEXANOATE, ISOSTEARIC ACID, AMODIMETHICONE, LACTIC ACID, ISOPROPYL ALCOHOL, TOCOPHEROL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.





Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.5-6.2 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.4 FINE HAIR MASQUE  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, AMODIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROLYZED COLLAGEN, CETYL-PG HYDROXYETHYL PALMITAMIDE, ISOSTEARIC ACID, DICOCODIMONIUM CHLORIDE, LAURETH-5, LACTIC ACID, ISOPROPYL ALCOHOL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.5-7.8 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.4 MEDIUM HAIR MASQUE  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, AMODIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROLYZED COLLAGEN, ISOSTEARIC ACID, DICOCODIMONIUM CHLORIDE, LACTIC ACID, ISOPROPYL ALCOHOL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if



symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use.  
Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment  
Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.  
Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 6.3-7.6 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.



Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 1<sup>st</sup> February 2019  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.3 COARSE HAIR TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, STEARYL ALCOHOL, STEARTRIMONIUM CHLORIDE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, OLEA EUROPAEA (OLIVE) FRUIT OIL, POLY(TRIPEPTIDE-6), LIMNANTHES ALBA (MEADOWFOAM) SEED OIL, ISOSTEARIC ACID, DICOCODIMONIUM CHLORIDE, AMODIMETHICONE, LACTIC ACID, ISOPROPYL ALCOHOL, TOCOPHEROL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.2-7.2 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.3 FINE HAIR TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, STEARYL ALCOHOL, ETHYLHEXYL ISONONANOATE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, POLY(TRIPEPTIDE-6), POLYQUATERNIUM-64, ISOPROPYL MYRISTATE, ISOSTEARIC ACID, DICOCODIMONIUM CHLORIDE, AMODIMETHICONE, LACTIC ACID, ISOPROPYL ALCOHOL, TOCOPHEROL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.5-7.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH NO.3 MEDIUM HAIR TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Manufacture's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

### **SECTION 2 – INGREDIENTS**

WATER, DIMETHICONE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, STEARYL ALCOHOL, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, POLY(TRIPEPTIDE-6), ISOSTEARIC ACID, DICOCODIMONIUM CHLORIDE, AMODIMETHICONE, LACTIC ACID, ISOPROPYL ALCOHOL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
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Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellow Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.3-7.3 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test





Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 <sup>st</sup> February 2019
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTH PERFECTING PRIMER  
 Product Use: Cosmetics (Hair Treatment)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, BUTYLENE GLYCOL, LAURYL BETAINE, C12-14 PARETH-12, ISOSTEAROYL HYDROLYZED SILK, HYDROLYZED COLLAGEN, HYDROXYPROPYLTRIMONIUM HYDROLYZED SILK, HYDROXYPROPYLTRIMONIUM HYDROLYZED KERATIN, SODIUM DILAURAMIDOGLUTAMIDE LYSINE, POLYQUATERNIUM-65, C10-40 ISOALKYLAMIDOPROPYLETHYLDIMONIUM ETHOSULFATE, ISOSTEARIC ACID, PVP, DIPROPYLENE GLYCOL, PHENOXYETHANOL, METHYLPARABEN, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
-	-	-	-	-	--	-

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
 Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.



Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Pale Yellowish Clear Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.2 - 6.2 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**



Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	8 February, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTHING SHAMPOO COARSE HAIR  
 Product Use: Cosmetics (Shampoo)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
 Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH SULFATE, SODIUM LAURETH-11 CARBOXYLATE, DIPROPYLENE GLYCOL, SODIUM COCOAMPHOACETATE, ISOSTEARAMIDOPROPYL BETAINE, SODIUM COCOYL APPLE AMINO ACIDS, COCAMIDE METHYL MEA, LAURAMIDOPROPYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROGENATED LECITHIN, SODIUM LAUROYL SILK AMINO ACIDS, SODIUM DILAURAMIDOGlutAMIDE LYSINE, SAXIFRAGA SARMENTOSA EXTRACT, PHYTOSTERYL/OCTYLDODECYL LAUROYL GLUTAMATE, DIPOTASSIUM GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, JOJOBA WAX PEG-80 ESTERS, ISOSTEARIC ACID, COCAMIDOPROPYL BETAINE, DECYL GLUCOSIDE, POLYQUATERNIUM-52, POLYQUATERNIUM-10, LAURETH-16, CETEARETH-7, CETEARETH-13, POLYGLYCERYL-10 LAURATE, SODIUM CHLORIDE, SODIUM ACETATE, AMODIMETHICONE, ACETIC ACID, CITRIC ACID, BUTYLENE GLYCOL, GLYCERIN, HEXYLENE GLYCOL, ALCOHOL, SODIUM HYDROXIDE, BHT, DISODIUM EDTA, ETIDRONIC ACID, PENTASODIUM PENTETATE, PHENOXYETHANOL, ARGININE, PHYTIC ACID, SILVER OXIDE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	< 1%
Hexylene Glycol	107-41-5	-	25 ppm	25 ppm		<0.5%
Acetic Acid	64-19-7	10 ppm	15 ppm (STEL)	15 ppm (STEL)		<0.1%
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)	<0.1%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)	<0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of



breath.  
Inhalation: Not Applicable

## **SECTION 5 - FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

**Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

**Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

**Flash Point (°C), Method:** Not available  
**Auto Ignition Temp. (°C):** Not available  
**Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

**Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

**Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.  
**Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal Protective Equipment**

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

**Ventilation Requirements:** General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Yellowish Clear Liquid



Odor:	Perfume Odor
Viscosity:	Not available
pH:	6.0 - 7.0 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Plastic Bottle, Aluminum Pouch

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	23 March, 2018
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit



ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTHING SHAMPOO FINE HAIR  
 Product Use: Cosmetics (Shampoo)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH SULFATE, DIPROPYLENE GLYCOL, ISOSTEARAMIDOPROPYL BETAINE, SODIUM C14-16 OLEFIN SULFONATE, SODIUM LAURETH-6 CARBOXYLATE, COCAMIDOPROPYL BETAINE, COCAMIDE METHYL MEA, SODIUM LAUROYL ASPARTATE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROXYPROPYLTRIMONIUM HYDROLYZED SILK, SAXIFRAGA SARMENTOSA EXTRACT, SODIUM DILAURAMIDOGlutAMIDE LYSINE, DIPOtASSIUM GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, POLIANTHES TUBEROSA POLYSACCHARIDE, ISOSTEARIC ACID, PCA ETHYL COCOYL ARGINATE, PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE, POLYQUATERNIUM-52, POLYQUATERNIUM-10, LAURETH-16, SODIUM CHLORIDE, MALIC ACID, BUTYLENE GLYCOL, GLYCERIN, 1,2-HEXANEDIOL, CAPRYLYL GLYCOL, ALCOHOL, SODIUM HYDROXIDE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	<0.1%
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)	<0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: Not Applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently



flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish Clear Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 6.0 - 7.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**



Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	28 January, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTHING SHAMPOO MEDIUM HAIR  
 Product Use: Cosmetics (Shampoo)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH SULFATE, DIPROPYLENE GLYCOL, ISOSTEARAMIDOPROPYL BETAINE, SODIUM C14-16 OLEFIN SULFONATE, SODIUM LAURETH-6 CARBOXYLATE, COCAMIDOPROPYL BETAINE, COCAMIDE METHYL MEA, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, SOLUBLE COLLAGEN, SAXIFRAGA SARMENTOSA EXTRACT, SODIUM DILAURAMIDOGLUTAMIDE LYSINE, POLIANTHES TUBEROSA POLYSACCHARIDE, DIPOTASSIUM GLICYRRHIZATE, DISODIUM SUCCINOYL GLICYRRHETINATE, SODIUM LAUROYL ASPARTATE, ISOSTEARIC ACID, PCA ETHYL COCOYL ARGINATE, PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE, POLYQUATERNIUM-10, SODIUM CHLORIDE, MALIC ACID, BUTYLENE GLYCOL, GLYCERIN, ALCOHOL, SODIUM HYDROXIDE, 1,2-HEXANEDIOL, CAPRYLYL GLYCOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	< 0.1%
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)	<0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: Not Applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Yellowish Clear Liquid
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 6.0 - 7.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Soluble
- Pressurized Container: No
- Type Container: Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	2 February, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTHING TREATMENT COARSE HAIR  
 Product Use: Cosmetics (Hair Treatment)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, STEARYL ALCOHOL, DIMETHICONE, PENTAERYTHRITYL TETRAETHYLHEXANOATE, AMODIMETHICONE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, ROSA CANINA FRUIT OIL, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, CHOLESTERYL/OCTYLDODECYL LAUROYL GLUTAMATE, POLYQUATERNIUM-61, ARGININE, GLUTAMIC ACID, SODIUM HYALURONATE, CHOLESTEROL, BUTYROSPERMUM PARKII (SHEA BUTTER) OIL, DIMER DILINOLEYL DIMER DILINOLEATE, CHOLESTERYL LANOLATE, PCA ETHYL COCOYL ARGINATE, ISOSTEARIC ACID, QUATERNIUM-18, QUATERNIUM-33, DICOCODIMONIUM CHLORIDE, POLYGLYCERYL-10 DISTEARATE, BUTYLENE GLYCOL, PROPYLENE GLYCOL, GLYCERIN, ISOPROPYL ALCOHOL, BHT, DISODIUM EDTA, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White to Pale Yellowish Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.0-6.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube, Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable





Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	4 February, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTHING TREATMENT FINE HAIR  
 Product Use: Cosmetics (Hair Treatment)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
 Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, STEARYL ALCOHOL, CETYL ALCOHOL, DIMETHICONE, ALCOHOL, STEAROXYPROPYLTRIMONIUM CHLORIDE, DIMETHICONOL, DI-C12-18 ALKYL DIMONIUM CHLORIDE, PPG-3 CAPRYLYL ETHER, ISOSTEAROYL HYDROLYZED SILK, HYDROLYZED SILK, CETYL-PG HYDROXYETHYL PALMITAMIDE, POLIANTHES TUBEROSA POLYSACCHARIDE, ARGININE, ISOSTEARIC ACID, SQUALANE, HYDROXYETHYLCELLULOSE, POLYQUATERNIUM-61, PCA ETHYL COCOYL ARGINATE, DICOCODIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, STEARTRIMONIUM CHLORIDE, LAURETH-5, AMODIMETHICONE, CITRIC ACID, BUTYLENE GLYCOL, GLYCERIN, ISOPROPYL ALCOHOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.5%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 2%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently



flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 3.0-3.7 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube, Plastic Bottle, Aluminum Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	23 March, 2018
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SMOOTHING TREATMENT MEDIUM HAIR  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, STEARYL ALCOHOL, MACADAMIA TERNIFOLIA SEED OIL, STEARTRIMONIUM CHLORIDE, AMODIMETHICONE, DISTEARYLDIMONIUM CHLORIDE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROLYZED COLLAGEN, POLYQUATERNIUM-61, ARGININE, QUATERNIUM-33, ISOSTEARIC ACID, SUCROSE LAURATE, PCA ETHYL COCOYL ARGINATE, DICOCODIMONIUM CHLORIDE, OLETH-2, ISOPROPYL ALCOHOL, BUTYLENE GLYCOL, GLYCERIN, ALCOHOL, ETIDRONIC ACID, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse



mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White to Pale Yellowish Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.0-5.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube, Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur



## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	3 February, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SOOTHING MOISTURIZER  
Product Use: Cosmetics (Scalp Lotion)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, ALCOHOL, DIPROPYLENE GLYCOL, BUTYLENE GLYCOL, ISOSTEAROYL HYDROLYZED SILK, SODIUM ACETYLATED HYALURONATE, HYDROLYZED HYALURONIC ACID, SODIUM HYALURONATE, MENTHYL PCA, MENTHOL, PANTHENYL ETHYL ETHER, ERIOBOTRYA JAPONICA LEAF EXTRACT, LUFFA CYLINDRICA FRUIT/LEAF/STEM EXTRACT, ANGELICA KEISKEI LEAF/STEM EXTRACT, STEPHANIA CEPHARANTHA ROOT EXTRACT, PANAX GINSENG ROOT EXTRACT, ZOSTERA MARINA EXTRACT, ORIGANUM MAJORANA LEAF EXTRACT, THYMUS SERPILLUM EXTRACT, HYDROLYZED RICE LEAF EXTRACT, HYDROLYZED CONCHIOLIN PROTEIN, SWERTIA JAPONICA EXTRACT, DIPOTASSIUM GLYCYRRHIZATE, DIHYDROXYPROPYL ARGININE HCL, GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER, PPG-13-DECYLTETRADECETH-24, GLYCERIN, ISOSTEARIC ACID, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Glycerin	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)	< 0.33%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 30%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately





- laundry the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Light Yellow Lotion
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.0-7.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Soluble
- Pressurized Container: No
- Type Container: Plastic Bottle



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	ID 8000: Consumer commodity, Class 9, Pkg.Y963
IMDG (Sea):	UN 1170: Ethanol solution, Class 3, Ltd. Qty.

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	5 Apr., 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON TEXTURIZING SEA MIST 3  
Product Use: Cosmetics (Hair Styling)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 - INGREDIENTS**

WATER, ALCOHOL, SODIUM CHLORIDE, PVP, POLYSORBATE 20, SEA SALT, HELIANTHUS ANNUUS (SUNFLOWER) SEED OIL, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, HYDROLYZED SILK, TOCOPHEROL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 6%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Pale Yellow Clear Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.1-4.9 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Spray Bottle

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	14 June, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON THICKENING MIST 4  
Product Use: Cosmetics (Hair Styling)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 - INGREDIENTS**

WATER, VP/VA COPOLYMER, ALCOHOL DENAT., ALCOHOL, POLYSORBATE 20, HONEY, POLYQUATERNIUM-11, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, HYDROLYZED SILK, PANTHENOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 6%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.



Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Pale Yellow Clear Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.0-5.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Spray Bottle

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test



Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	14 June, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON VOLUMIZING SHAMPOO  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH SULFATE, SODIUM LAURETH-6 CARBOXYLATE, LAURAMIDOPROPYL BETAINE, COCAMIDE METHYL MEA, SODIUM LAURETH-4 CARBOXYLATE, DISODIUM LAURETH SULFOSUCCINATE, ISOSTEAROYL HYDROLYZED SILK, SERICIN, DIOSPYROS KAKI FRUIT EXTRACT, SAXIFRAGA SARMENTOSA EXTRACT, POLYQUATERNIUM-10, POLYQUATERNIUM-52, ISOSTEARIC ACID, LAURETH-16, DIPOTASSIUM GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, GLYCERIN, BUTYLENE GLYCOL, MALIC ACID, SODIUM BICARBONATE, SODIUM CARBONATE, POTASSIUM HYDROXIDE, DISODIUM EDTA, CHLORAMINE T, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Potassium Hydroxide	1310-58-3		2 mg/m3	2 mg/m3		< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

#### **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

#### **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

#### **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

#### **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

#### **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.0 - 6.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Bottle, Aluminum Pouch

#### **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 17 August, 2017  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON VOLUMIZING TREATMENT  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, HYDROXYPROPYL STARCH PHOSPHATE, STEARYL ALCOHOL, BEHENTRIMONIUM CHLORIDE, DIISOPROPYL ADIPATE, QUATERNIUM-91, ISONONYL ISONONANOATE, ISOSTEAROYL HYDROLYZED SILK, HYDROLYZED KERATIN, DIOSPYROS KAKI FRUIT EXTRACT, SODIUM HYALURONATE, HYDROLYZED RICE PROTEIN, PYRIDOXINE HCL, CAPRYLIC/CAPRIC TRIGLYCERIDE, CETYL PALMITATE, EUPHORBIA CERIFERA (CANDELILLA) WAX, PPG-3 BENZYL ETHER MYRISTATE, DIMER DILINOLEYL DIMER DILINOLEATE, KAOLIN, STEARAMIDOPROPYL DIMETHYLAMINE, ISOSTEARIC ACID, CALCIUM PANTOTHENATE, LACTIC ACID, GLYCERIN, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, SODIUM BICARBONATE, SODIUM CARBONATE, CHLORAMINE T, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 2.5 - 3.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube, Plastic Jar, Plastic Bottle, Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable



Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	17 August, 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON WAVE DEFINING CREAM 1  
Product Use: Cosmetics (Hair Styling)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, CYCLOPENTASILOXANE, GLYCERIN, CETYL ALCOHOL, PHENYL TRIMETHICONE, CETYL LACTATE, DIMER DILINOLEYL DIMER DILINOLEATE, ALCOHOL, HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER, PRUNUS ARMENIACA (APRICOT) KERNEL OIL, BUTYROSPERMUM PARKII (SHEA) OIL, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, OLEYL OLEATE, STEARYL ALCOHOL, CAPRYLIC/CAPRIC TRIGLYCERIDE, AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE COPOLYMER, AMINOPROPYL DIMETHICONE, DIMETHICONOL, DIMETHICONE, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, DISTEARYLDIMONIUM CHLORIDE, BEHENTRIMONIUM METHOSULFATE, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1.5%
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm	500 ppm	5045 mg/kg (Rat-Oral)	< 0.2%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 3.4-5.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available





Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 14 June, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON WAVE ENHANCING MOUSSE 4  
 Product Use: Cosmetics (Hair Styling Foam)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, PROPANE, BUTANE, BEESWAX, MYRISTIC ACID, C14-18 ALKYL ETHYLHEXANOATE, DIMER DILINOLEYL DIISOSTEARATE, ISOBUTANE, ISOSTEARIC ACID, BUTYROSPERMUM PARKII (SHEA) BUTTER, AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE COPOLYMER, ISOSTEAROYL HYDROLYZED SILK, CETETH-30, PEG-60 HYDROGENATED CASTOR OIL, PROPANEDIOL, CETYL LACTATE, MYRISTYL ALCOHOL, PEG-4, PEG-20, HYDROXYETHYLCELLULOSE, SODIUM LAURETH SULFATE, SODIUM LAURYL SULFATE, POLYSORBATE 20, CYCLOPENTASILOXANE, DIMETHICONOL, SODIUM SULFATE, PROPYLENE GLYCOL, ALCOHOL, AMINOMETHYL PROPANOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%
Butane	106-97-8		1000 ppm	800 ppm		< 2.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
 Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Foam  
Odor: Perfume Odor  
Viscosity: Not available  
pH: Not available  
Gravity@25 °C: 0.99 -1.01 (as solution before filling gas)  
Solubility in water: Soluble  
Pressurized Container: Yes  
Type Container: Aluminum Bottle

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): ID 8000: Consumer commodity, Class 9, Pkg.Y963  
IMDG (Sea): UN 1950: Aerosols, Class 2.1, Ltd. Qty.

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 15 September, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON WEIGHTLESS REPLENISHING MIST  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 - INGREDIENTS**

WATER, BUTYLENE GLYCOL, DIMETHICONOL, ALCOHOL, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, PCA, SODIUM PCA, ASPARTIC ACID, ALANINE, ARGININE, ISOLEUCINE, GLYCINE, SERINE, THREONINE, VALINE, HISTIDINE, PHENYLALANINE, PROLINE, CHOLESTEROL, ISOSTEARIC ACID, QUATERNIUM-18, QUATERNIUM-33, SODIUM LAURYL SULFATE, SODIUM LAURETH SULFATE, PPG-6-DECYLTETRADECETH-30, SODIUM SULFATE, SODIUM LACTATE, LACTIC ACID, PROPYLENE GLYCOL, ISOPROPYL ALCOHOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)	< 3%
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: Not Applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 6.3 - 7.8 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
Pressurized Container: No  
Type Container: Plastic Bottle

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 8 February, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations:

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
NIOSH	National Institute for Occupational Safety and Health
REL	Recommended Exposure Limit
LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON WET SHINE GEL CREAM 5  
 Product Use: Cosmetics (Hair Styling)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, MINERAL OIL, BUTYLENE GLYCOL, BUTYROSPERMUM PARKII (SHEA) OIL, BUTYROSPERMUM PARKII (SHEA) BUTTER, EUPHORBIA CERIFERA (CANDELILLA) WAX, SQUALANE, ROSA CENTIFOLIA FLOWER WATER, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, PEG-14M, AMP-ACRYLATES/DIACETONEACRYLAMIDE COPOLYMER, HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER, ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER, AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE COPOLYMER, CARBOMER, HYDROXYPROPYL STARCH PHOSPHATE, PEG-50 HYDROGENATED CASTOR OIL, PPG-4-CETETH-1, PPG-4-CETETH-20, PPG-8-CETETH-20, CETETH-10, PROPYLENE GLYCOL, ALCOHOL, AMINOMETHYL PROPANOL, DISODIUM EDTA, PHENOXYETHANOL, ETHYLPARABEN, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
 Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
 Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is





rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Turbidity Gel  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.6-6.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 14 June, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations:

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
NIOSH	National Institute for Occupational Safety and Health
REL	Recommended Exposure Limit
LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON WET SHINE GEL CREAM 8  
Product Use: Cosmetics (Hair Styling)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER, PROPYLENE GLYCOL, PEG-4, EUPHORBIA CERIFERA (CANDELILLA) WAX, AMP-ACRYLATES/DIACETONEACRYLAMIDE COPOLYMER, PPG-8-CETETH-20, ALCOHOL, CARBOMER, SQUALANE, ROSA CENTIFOLIA FLOWER WATER, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, HYDROXYETHYL ACRYLATE/METHOXYETHYL ACRYLATE COPOLYMER, AMP-ACRYLATES/C1-18 ALKYL ACRYLATE/C1-8 ALKYL ACRYLAMIDE COPOLYMER, PPG-4-CETETH-20, CETETH-10, AMINOMETHYL PROPANOL, DISODIUM EDTA, PHENOXYETHANOL, ETHYLPARABEN, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 1.5%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If



vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.  
Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use.  
Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish White Turbidity Gel  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 6.2-6.5 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Tube

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur



## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	14 June, 2016
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON ACID CONTROL  
Product Use: Hair Treatment  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
PPG-9 DIGLYCERYL ETHER  
DIGLYCERIN  
DIAMMONIUM PHOSPHATE  
PHOSPHORIC ACID  
GLYCINE  
SACCHAROMYCES/PERSIMMON FRUIT JUICE FERMENT EXTRACT  
SODIUM CITRATE  
SODIUM SULFATE  
ZINC SULFATE  
CITRIC ACID  
BUTYLENE GLYCOL  
ETHOXYDIGLYCOL  
ALCOHOL  
DISODIUM EDTA  
SODIUM BENZOATE  
CETYLPIRIDINIUM CHLORIDE  
METHYLISOTHIAZOLINONE  
CARTHAMUS TINCTORIUS (SAFFLOWER) FLOWER EXTRACT

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

**Skin Contact:** No specific hazard is identified under normal conditions when observed directions for use. May cause irritation to open cuts or abraded skin, or if it is left onto skin for a long time.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient



**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellow Clear Lotion
Odor:	Specific Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	4.9–5.2 (when manufactured)
Gravity@20°C:	NAV
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Aluminum Pouch

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 9 Oct, 2009  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON CARBONATED SHAMPOO  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM COCOYL GLUTAMATE, LAURYL BETAINE, PETROLEUM DISTILLATES, SODIUM LAURETH-6 CARBOXYLATE, CARBON DIOXIDE, LACTIC ACID, LAURETH-6 CARBOXYLIC ACID, BUTYLENE GLYCOL, SODIUM LACTATE, COCAMIDE METHYL MEA, SALIX ALBA (WILLOW) BARK EXTRACT, CITRUS RETICULATA (TANGERINE) PEEL EXTRACT, ISOSTEAROYL HYDROLYZED SILK, PCA, SODIUM PCA, ASPARTIC ACID, ALANINE, ARGININE, ISOLEUCINE, GLYCINE, SERINE, THREONINE, VALINE, HISTIDINE, PHENYLALANINE, PROLINE, ISOSTEARIC ACID, PVP, POLYQUATERNIUM-10, ISOPENTANE, MENTHOL, DIPOTASSIUM GLYCYRRHIZATE, PEG-4, DISODIUM EDTA, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Butane	106-97-8		1000 ppm (TWA)	800 ppm (TWA)		< 2.1%
Carbon Dioxide	124-38-9	5000 ppm	30000 ppm (STEL)	30000 ppm (STEL)		< 1.3%
2-Methylbutane (Isopentane)	78-78-4	1000 ppm	120 ppm (TWA)	600 ppm (TWA)		< 1.0%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately



- laundry the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type:** None required with normal use.
- Respiratory/Type:** None required with normal use.
- Gloves/Type:** None required with normal use.
- Clothing/Type:** None required with normal use.
- Footwear/Type:** None required with normal use.
- Ventilation Requirements:** General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance:** White Foam
- Odor:** Perfume Odor
- Viscosity:** Not available
- pH:** 4.8 – 5.0 (when manufactured)
- Gravity@25 °C:** Not available
- Solubility in water:** Soluble
- Pressurized Container** Yes
- Type Container** Aluminum Bottle



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	ID 8000: Consumer commodity, Class 9, Pkg.Y963
IMDG (Sea):	UN 1950: Aerosols, Class 2.1, Ltd. Qty.

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	16 January, 2019
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON COLOR REMOVER US  
Product Use: Removing Color Stain  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
ALCOHOL  
OLETH-10  
DIPROPYLENE GLYCOL  
BENZYL ALCOHOL  
SODIUM METABISULFITE  
AMINOMETHYL PROPANOL  
POTASSIUM HYDROXIDE  
COCAMIDOPROPYL BETAINE  
CITRUS MEDICA LIMONUM (LEMON) PEEL OIL  
TRISODIUM HEDTA  
CITRUS AURANTIUM DULCIS (ORANGE) OIL

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

**Skin Contact:** No specific hazard is identified under normal conditions when observed directions for use. May cause irritation to open cuts or abraded skin, or if it is left onto skin for a long time.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient



**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear Lotion
Odor:	Orange Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	9.0–10.0 (when manufactured)
Gravity@20°C:	0.97–1.03
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 5 Oct, 2009  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON DRY TEXTURIZING SPRAY 4  
Product Use: Cosmetics (Hair Styling Spray)  
Chemical Family: Mixture  
Business Name: MILBON USA, Inc.  
Business Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

HYDROFLUOROCARBON 152a, ALCOHOL DENAT., VP/VA COPOLYMER, HELIANTHUS ANNUUS (SUNFLOWER) SEED EXTRACT, ACTINIDIA CHINENSIS (KIWI) FRUIT EXTRACT, ALOE BARBADENSIS LEAF EXTRACT, HEDYCHIUM CORONARIUM (GINGER) ROOT EXTRACT, MANGIFERA INDICA (MANGO) FRUIT EXTRACT, PASSIFLORA INCARNATA (PASSION FLOWER) EXTRACT, AMP-ISOSTEAROYL HYDROLYZED WHEAT PROTEIN, ZEOLITE, ACETYL TRIETHYL CITRATE, PEG/PPG-17/18 DIMETHICONE, BENZOPHENONE-4, GLYCERIN, BUTYLENE GLYCOL, PHENOXYETHANOL, CHLORPHENESIN, BENZOIC ACID, SORBIC ACID, WATER (AQUA), FRAGRANCE (PARFUM)

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat- Oral)	10 - 20%
HYDROFLUOROCARBON 152a	75-37-6	-	Not Established	Not Established	-	75 - 85%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin. Repeated contact may cause irritation and drying of the skin. Contact with propellant may cause freeze burns.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently



flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Specific hazards: Closed containers exposed to excessive heat may rupture. Do not crush or puncture containers.

Flash Point (°C), Method: Not available

Auto Ignition Temp. (°C): Not available

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Product is packed in aerosol containers. Dispose of any leaking aerosols per site instructions after placing in safe fireproof containers with leaking material absorbed by earth or other non-flammable absorbent.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Wash hands thoroughly after using this product and before eating, drinking, or smoking

Storage Requirements: Keep away from excessive heat, open flames, sparks, and other possible source of ignition. Do not store in damaged or unmarked containers or storage devices. For warehouse storage, pallets and cases should be placed to avoid damage or rupture from material handling equipment. With use, spray aerosol carefully and cap after each use.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Pale yellow, Opaque Liquid

Odor: Perfume Odor

Viscosity: Not available



pH:	4 – 10 (When manufactured)
Gravity@25 °C:	Not available
Volatile Organic Compounds (VOC) %	<55%
Solubility in water:	Insoluble
Pressurized Container	Yes
Type Container	Aluminum Bottle

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Strong oxidizing agents
Hazardous Decomposition:	Irritating vapors and toxic gases when involved in fire
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of in accordance with federal, state or local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	ID 8000: Consumer commodity, Class 9 UN 1950: Aerosols, Class 2.1, Ltd. Qty.
IMDG (Sea):	UN 1950: Aerosols, Class 2.1, Ltd. Qty.

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	19 January 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit



ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
NIOSH	National Institute for Occupational Safety and Health
REL	Recommended Exposure Limit
LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON EXTRA STRONG HOLD HAIRSPRAY 10  
Product Use: Cosmetics (Hair Styling Spray)  
Chemical Family: Mixture  
Business Name: MILBON USA, Inc.  
Business Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

ALCOHOL DENAT., HYDROFLUOROCARBON 152a, WATER (AQUA), OCTYLACRYLAMIDE/ACRYLATES/BUTYLAMINOETHYL METHACRYLATE COPOLYMER, AMINOMETHYL PROPANOL, PANTHENOL, PEG/PPG-17/18 DIMETHICONE, AMP-ISOSTEAROYL HYDROLYZED WHEAT PROTEIN, BENZOPHENONE-4, GLYCERIN, FRAGRANCE (PARFUM)

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat- Oral)	42 - 55%
HYDROFLUOROCARBON 152a	75-37-6	-	Not Established	Not Established	-	32 - 45%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin. Repeated contact may cause irritation and drying of the skin. Contact with propellant may cause freeze burns.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Specific hazards: Closed containers exposed to excessive heat may rupture. Do not crush or puncture containers.
- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Product is packed in aerosol containers. Dispose of any leaking aerosols per site instructions after placing in safe fireproof containers with leaking material absorbed by earth or other non-flammable absorbent.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Wash hands thoroughly after using this product and before eating, drinking, or smoking
- Storage Requirements: Keep away from excessive heat, open flames, sparks, and other possible source of ignition. Do not store in damaged or unmarked containers or storage devices. For warehouse storage, pallets and cases should be placed to avoid damage or rupture from material handling equipment. With use, spray aerosol carefully and cap after each use.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Colorless, Clear Liquid
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 4 – 10 (When manufactured)
- Gravity@25 °C: Not available





Volatile Organic Compounds (VOC) %	<55%
Solubility in water:	Insoluble
Pressurized Container	Yes
Type Container	Aluminum Bottle

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Strong oxidizing agents
Hazardous Decomposition:	Irritating vapors and toxic gases when involved in fire
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of in accordance with federal, state or local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	ID 8000: Consumer commodity, Class 9 UN 1950: Aerosols, Class 2.1, Ltd. Qty.
IMDG (Sea):	UN 1950: Aerosols, Class 2.1, Ltd. Qty.

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	19 January 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value



NIOSH    National Institute for Occupational Safety and Health  
REL      Recommended Exposure Limit  
LD<sup>50</sup>    Lethal dose 50 percent kill

-Nothing Follows



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON FACE PROTECT CREAM  
Product Use: Cosmetics (Skin Cream)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

MINERAL OIL, PETROLATUM, DEXTRIN PALMITATE, MICROCRYSTALLINE WAX, CETETH-15, ALUMINUM DISTEARATE, CETYL ALCOHOL, CETETH-30, DISTEARDIMONIUM HECTORITE, PROPYLENE CARBONATE, TOCOPHEROL

### **SECTION 3 - HAZARDOUS INGREDIENTS**

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

### **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available



Extinguishing Media: Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Characteristic odor  
Viscosity: Not available  
Gravity@25 °C: 0.8 - 0.9 (when manufactured)  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Plastic Jar

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available



Detoxification: Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods

IMDG (Sea): Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 1<sup>st</sup> February 2019

Revision Number: 1st

Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON PERM NEUTRALIZER 2  
Product Use: Cosmetics (Hair Waving)  
Chemical Family: Mixture  
Company Name: Milbon Co., Ltd.  
Company Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Manufacture's Name: MILBON (THAILAND) CO., LTD.  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM PHOSPHATE, HYDROGEN PEROXIDE, MINERAL OIL, DISODIUM PHOSPHATE, OLETH-20, CETRIMONIUM CHLORIDE, OLETH-7, POLYQUATERNIUM-22, ISOPROPYL ALCOHOL, LANOLIN, OLETH-10, ETIDRONIC ACID, STEARTRIMONIUM CHLORIDE, PHENOXYETHANOL, OLETH-15, OLEYL ALCOHOL, ETHOXYDIGLYCOL, LAURTRIMONIUM CHLORIDE, SORBIC ACID, POLYQUATERNIUM-51, SODIUM HYDROXIDE, CARBOXYMETHYL CHITOSAN SUCCINAMIDE, PHOSPHORIC ACID, METHYLPARABEN, PROPYLPARABEN

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Hydrogen Peroxide	7722-84-1	1 ppm	1 ppm (TWA)	1 ppm (TWA)	1,518mg/kg (Rat-Oral)	< 1.1%
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)	< 0.01%
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.3%
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)	< 0.01%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

Skin Contact: May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.



## **SECTION 5 - FIRST AID MEASURES**

- Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment**
- Eye/Type:** Approved safety goggles or glasses
- Respiratory/Type:** Not required under normal use
- Gloves/Type:** Rubber/Latex/Nylon gloves
- Clothing/Type:** Rubber/Nylon apron
- Footwear/Type:** Approved safety shoe protection
- Ventilation Requirements:** General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance:** White Liquid
- Odor:** Characteristic Odor
- Viscosity:** Not available



pH:	3.5-4.5 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Plastic Pouch

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Reducing Materials, Alkali, Excessive heat or flame
Hazardous Decomposition:	Contaminated product will generate oxygen gas. Excessive heat will urge to generate oxygen gas.
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 Sep 2014
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value





NIOSH National Institute for Occupational Safety and Health

REL Recommended Exposure Limit

LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON SCALP SUPPORT OIL  
Product Use: Cosmetics (Scalp Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

LPG (BUTANE, ISOBUTANE), HYDROGENATED POLYISOBUTENE, DIETHOXYETHYL SUCCINATE, OLEA EUROPAEA (OLIVE) FRUIT OIL, STEARYL GLYCYRRHETINATE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Butane	106-97-8		1000 ppm (TWA)	800 ppm (TWA)		< 50%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if



symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method:	Not available
Auto Ignition Temp. (°C):	Not available
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear Liquid
Odor:	Characteristic Odor
Viscosity:	Not available
pH:	Not available
Gravity@25 °C:	0.7 - 0.8
Solubility in water:	Insoluble
Pressurized Container	Yes
Type Container	Aluminum Bottle

## **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.



Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): ID 8000: Consumer commodity, Class 9, Pkg.Y963  
IMDG (Sea): UN 1950: Aerosols, Class 2.1, Ltd. Qty.

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 20 August, 2015  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations:

OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
NIOSH	National Institute for Occupational Safety and Health
REL	Recommended Exposure Limit
LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRAIGHT LISCIOCRISTAL  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacturer's Name: Milbon Co., Ltd.  
Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 550 Fifth Avenue, 9<sup>th</sup> Floor, New York, NY 10036  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

CYCLOPENTASILOXANE, DIMETHICONOL, C12-15 ALKYL BENZOATE, HEXYLDECYL MYRISTOYL METHYLAMINOPROPIONATE, DIMETHICONE/VINYL DIMETHICONE CROSSPOLYMER, DIISOSTEARYL MALATE, DIMETHICONE, BHT, ETHYLHEXYL SALICYLATE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If



vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.  
Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: 63.6°C (Tag Closed Cup)  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use.  
Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear Solution  
Odor: Perfume Odor  
Viscosity: Not available  
pH: Not applicable  
Gravity@25 °C: 0.95-0.97 (when manufactured)  
Solubility in water: Insoluble  
Pressurized Container: No  
Type Container: Plastic Bottle

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.



### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	28 May, 2019
Revision Number:	4
Prepared By:	Central Research Institute, Milbon Co., Ltd.

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Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON STRONG HOLD HAIRSPRAY 7  
Product Use: Cosmetics (Hair Styling Spray)  
Chemical Family: Mixture  
Business Name: MILBON USA, Inc.  
Business Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

ALCOHOL DENAT., HYDROFLUOROCARBON 152a, OCTYLACRYLAMIDE/ACRYLATES/BUTYLAMINOETHYL METHACRYLATE COPOLYMER, AMINOMETHYL PROPANOL, PANTHENOL, ACTINIDIA CHINENSIS (KIWI) FRUIT EXTRACT, ALOE BARBADENSIS LEAF EXTRACT, HEDYCHIUM CORONARIUM (GINGER) ROOT EXTRACT, MANGIFERA INDICA (MANGO) FRUIT EXTRACT, PASSIFLORA INCARNATA (PASSION FLOWER) EXTRACT, AMP-ISOSTEAROYL HYDROLYZED WHEAT PROTEIN, ACETYL TRIETHYL CITRATE, PEG/PPG-17/18 DIMETHICONE, BENZOPHENONE-4, GLYCERIN, WATER (AQUA), PHENOXYETHANOL, CHLORPHENESIN, BENZOIC ACID, SORBIC ACID, FRAGRANCE (PARFUM)

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat- Oral)	45 - 55%
HYDROFLUOROCARBON 152a	75-37-6	-	Not Established	Not Established	-	32 - 45%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin. Repeated contact may cause irritation and drying of the skin. Contact with propellant may cause freeze burns.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.





- Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Specific hazards: Closed containers exposed to excessive heat may rupture. Do not crush or puncture containers.
- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Exclude sources of ignition and ventilate the area. Avoid breathing vapors. Product is packed in aerosol containers. Dispose of any leaking aerosols per site instructions after placing in safe fireproof containers with leaking material absorbed by earth or other non-flammable absorbent.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Wash hands thoroughly after using this product and before eating, drinking, or smoking
- Storage Requirements: Keep away from excessive heat, open flames, sparks, and other possible source of ignition. Do not store in damaged or unmarked containers or storage devices. For warehouse storage, pallets and cases should be placed to avoid damage or rupture from material handling equipment. With use, spray aerosol carefully and cap after each use.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Colorless, Clear Liquid
- Odor: Perfume Odor



Viscosity:	Not available
pH:	4 – 10 (When manufactured)
Gravity@25 °C:	Not available
Volatile Organic Compounds (VOC) %	<55%
Solubility in water:	Insoluble
Pressurized Container	Yes
Type Container	Aluminum Bottle

#### **SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Strong oxidizing agents
Hazardous Decomposition:	Irritating vapors and toxic gases when involved in fire
Hazardous Polymerization:	Will not occur

#### **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of in accordance with federal, state or local regulations.
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#### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	ID 8000: Consumer commodity, Class 9 UN 1950: Aerosols, Class 2.1, Ltd. Qty.
IMDG (Sea):	UN 1950: Aerosols, Class 2.1, Ltd. Qty.

#### **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	19 January 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average



STEL	Short Term Exposure Limit
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Value
NIOSH	National Institute for Occupational Safety and Health
REL	Recommended Exposure Limit
LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: MILBON VOLUME MIST  
Product Use: Cosmetics (Hair Styling Spray)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

ALCOHOL  
WATER  
ALCOHOL DENAT.  
VP/VA COPOLYMER  
PANTHENOL  
ETHYL ESTER OF HYDROLYZED SILK  
HYDROLYZED KERATIN  
HYDROXYETHYL/METHOXYETHYL ACRYLATE COPOLYMER  
VINYL CAPROLACTAM/VP/DIMETHYLAMINOETHYL METHACRYLATE COPOLYMER  
PEG-12 DIMETHICONE  
PHENOXYETHANOL  
FRAGRANCE

The nitrogen gas is inside of the container.

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion, Inhalation

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 - FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAP
Auto Ignition Temp. (°C):	NAV
Extinguishing Media:	Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Avoid heat or flame. Ventilate the room from below. Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Do not leave this product over 40 °C. Avoid excessive heat or flame. Keep out of reach of children.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear Solution
Odor:	Perfume Odor
Viscosity:	NAV
pH:	5.88 (When manufactured)
Gravity@25°C:	NAV
Solubility in water:	Soluble
Pressurized Container	Yes
Type Container	Aluminum Bottle

**SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	heat or flame.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National, Provincial and Local regulations. Before disposal, consume the entire content of the product. Do not throw away in fire.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	ID 8000: Consumer commodity, Class 9, Pkg.Y963
IMDG (Sea):	UN 1950: Aerosols, Class 2.1, Ltd. Qty.

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1st December, 2012
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-



**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NEO LEAF HAIR TONIC  
Product Use: Hair Tonic (Leave-on)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35, Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

ALCOHOL	QUATERNIUM-51
WATER	ACHILLEA MILLEFOLIUM EXTRACT
CAPSICUM TINCTURE	CHAMOMILLA RECUTITA (MATRICARIA) FLOWER EXTRACT
PROPYLENE GLYCOL	FOENICULUM VULGARE (FENNEL) FRUIT EXTRACT
PEG-20 SORBITAN COCOATE	HUMULUS LUPULUS (HOPS) EXTRACT
MENTHOL	MELISSA OFFICINALIS (BALM MINT) LEAF EXTRACT
SALICYLIC ACID	VISCUM ALBUM (MISTLETOE) LEAF EXTRACT
CALCIUM PANTOTHENATE	FRAGRANCE
4-NITROGUAIACOL	

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1900 mg/m <sup>3</sup>	1880 mg/m <sup>3</sup> (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion, Inhalation

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellowish Clear Solution
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	3.0–5.0 (when manufactured)
Gravity@25°C:	0.87–0.93 (when manufactured)
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	glass bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 10/25/2007  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NIGELLE Clear Surge Milk

Product Use: Hair Styling Cream

Chemical Family: Mixture

Manufacture's Name: Milbon Co., Ltd.

Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

Distributor's Name: MILBON USA, Inc.

Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012

Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	MICROCRYSTALLINE WAX
BUTYLENE GLYCOL	CAPRYLIC/CAPRIC TRIGLYCERIDE
DIETHYLHEXYL SUCCINATE	CYCLOMETHICONE
DIMETHICONE	DIMETHICONE COPOLYOL
STEARYL ALCOHOL	CITRIC ACID
STEARIC ACID	SODIUM HYDROXIDE
CETETH-10	BHT
EUPHORBIA CERIFERA (CANDELILLA) WAX	PENTASODIUM PENTETATE
LECITHIN	PHENOXYETHANOL
SQUALANE	PROPYLPARABEN
BATYL ALCOHOL	METHYLPARABEN
CETETH-6	FRAGRANCE

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient



**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	3500–7000mPa.s (when manufactured)
pH:	7.7–8.6 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/18/2004  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NIGELLE ER HAIR TREATMENT

Product Use: Hair Treatment

Chemical Family: Mixture

Manufacture' s Name: Milbon Co., Ltd.

Manufacture' s Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

Distributor' s Name: MILBON USA, Inc.

Distributor' s Address: 568 Broadway, Suite 606, New York, NY 10012

Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	SUCROSE DISTEARATE
CETYL ALCOHOL	SUCROSE LAURATE
DIMETHICONE	STEARTRIMONIUM BROMIDE
PENTAERYTHRITYL TETRAETHYLHEXANOATE	CYCLOPENTASILOXANE
PERSEA GRATISSIMA (AVOCADO) OIL	DIMETHICONOL
STEARYL ALCOHOL	ISOPROPYL ALCOHOL
CETRIMONIUM BROMIDE	DISODIUM EDTA
BUTYLENE GLYCOL	BHT
ALCOHOL	METHYLISOTHIAZOLINONE
PHYTOSTERYL/DECYLTETRADECYL MYRISTOYL	FRAGRANCE
METHYL BETA-ALANINATE	
SODIUM HYALURONATE	

## NIGELLE ER HAIR TREATMENT

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)
Butylated Hydroxy Toluene	128-37-0	—	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TWA)	890 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## NIGELLE ER HAIR TREATMENT

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	30,000mPa.s over (when manufactured)
pH:	4.0–4.5 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Jar, Plastic bottle, Plastic pouch

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 18 AUG, 2008  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NIGELLE ER SHAMPOO

Product Use: Shampoo

Chemical Family: Mixture

Manufacture's Name: Milbon Co., Ltd.

Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

Distributor's Name: MILBON USA, Inc.

Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012

Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	SODIUM ACRYLATES COPOLYMER
SODIUM COCOYL GLUTAMATE	CETETH-15
DISODIUM LAURETH SULFOSUCCINATE	DISODIUM SUCCINOYL GLYCYRRHETINATE
COCAMIDE METHYL MEA	DIPOTASSIUM GLYCYRRHIZATE
LAURAMIDOPROPYL BETAINE	DIMETHICONE
PEG-120 METHYL GLUCOSE TRIISOSTEARATE	PHOSPHORIC ACID
SUCROSE LAURATE	BUTYLENE GLYCOL
SODIUM LACTATE	GLYCERIN
CHOLESTEROL	PROPYLENE GLYCOL
TRHALOSE HYDROXYPROPYLTRIMONIUM CHLORIDE	ALCOHOL
PCA ETHYL COCOYL ARGINATE	ISOPROPYL ALCOHOL
TRIGONELLA FOENUM-GRAECUM	SODIUM HYDROXIDE
HYDROXYPROPYLTRIMONIUM CHLORIDE	SODIUM SULFITE
POLYQUATERNIUM-61	DISODIUM EDTA
POLYQUATERNIUM-10	METHYLISOTHIAZOLINONE
QUATERNIUM-18	FRAGRANCE
QUATERNIUM-33	



**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)
Glycerin	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 – FIRST AID MEASURES**

Skin Contact:	If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.
Eye Contact:	Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.
Ingestion:	Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.
Inhalation:	If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.

Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: Approved safety goggles or glasses if necessary

Respiratory/Type: None required with normal use. If fumes become irritating, use approved respirator.

Gloves/Type: None required with normal use. Rubber/latex if necessary.

Clothing/Type: Rubber apron if necessary.

Footwear/Type: Approved safety shoe protection if necessary.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Whitish solution

Odor: Perfume Odor

Solidification Point/ Melting Point: NAV

Viscosity: 400–3000mPa.s (when manufactured)

pH: 5.6–5.8 (when manufactured)

Gravity@25°C: NAV

Solubility in water: Soluble

Boiling Rate: NAV

Vapor Pressure @25°C: NAV

Vapor Density: NAV

Evaporation Rate: NAV

Pressurized Container: No

Type Container: Plastic Bottle, Plastic pouch

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 18 AUG, 2008  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NIGELLE TEXTURE CLAY

Product Use: Hair Styling Wax

Chemical Family: Mixture

Manufacture's Name: Milbon Co., Ltd.

Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

Distributor's Name: MILBON USA, Inc.

Distributor's Address: 568 Broadway, 6th Floor, New York, NY 10012

Emergency Call: MILBON USA, Inc.

Phone No.: +1-800-431-8930

International Dept. of Milbon Co., Ltd. (Japan)

Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	OCTYLACRYLAMIDE/ACRYLATES/BUTYLAMINOETHYL METHACRYLATE COPOLYMER
ISOPROPYL MYRISTATE	ALUMINUM DISTEARATE
DIETHYLHEXYL SUCCINATE	CITRIC ACID
CETETH-10	AMINOMETHYL PROPANOL
EUPHORBIA CERIFERA (CANDELILLA) WAX	SODIUM HYDROXIDE
HYDROXYSTEARIC ACID	ALCOHOL
CETETH-6	PENTASODIUM PENTETATE
BUTYLENE GLYCOL	HINOKITIOL
MICROCRYSTALLINE WAX	SODIUM BENZOATE
SQUALANE	PHENOXYETHANOL
PEG-90M	PROPYLPARABEN
VA/CROTONATES COPOLYMER	METHYLPARABEN

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)
Ethyl Alcohol	64-17-5	1900 mg/m <sup>3</sup>	1880 mg/m <sup>3</sup> (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** NAP

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient



**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Characteristic odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	6.3–6.7 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Jar

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/24/2004  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

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	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NOIRAUDEPRO CMC  
Product Use: Hair Treatment  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	PEG-20 HYDROGENATED CASTOR OIL
PHYTOSTERYL ISOSTEARATE	GLYCERYL STEARATE SE
GLYCERIN	CETETH-20
SQUALANE	LAURETH-5
PROPYLENE GLYCOL	POLYSILICONE-14
CERAMIDE3	SODIUM CARBONATE
CETYL-PG HYDROXYETHYL PALMITAMIDE	TRIETHANOLAMINE
CHOLESTEROL	BUTYL METHOXYDIBENZOYLMETHANE
BIOSACCHARIDE GUM-1	ETHYLHEXYL METHOXYCINNAMATE
TOCOPHERYL ACETATE	PROPYLPARABEN
ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	METHYLPARABEN

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Glycerin	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion, Inhalation

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Solution
Odor:	Characteristic odor
Solidification Point/ Melting Point:	NAV
Viscosity:	500–1500mPa.s (when manufactured)
pH:	6.60–6.90 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle or Plastic Bag

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 04/26/2005  
Revision Number: 3rd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NOIRAUDEPRO HM-Cg HM-COLLAGEN  
Product Use: Hair Treatment  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	PEG-60 HYDROGENATED CASTOR OIL
HYDROLYZED COLLAGEN	PHENOXYETHANOL
DIPROPYLENE GLYCOL	METHYLPARABEN
GLYCERIN	FRAGRANCE
BUTYLENE GLYCOL	

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Glycerin	56-81-5	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup>	12600 mg/kg (Rat-Oral)



**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion, Inhalation

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 – FIRE FIGHTING MEASURES

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

## SECTION 7 – ACCIDENTAL RELEASE MEASURE

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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## SECTION 8 – HANDLING AND STORAGE

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

## NOIRAUDEPRO HM-Cg HM-COLLAGEN

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellow Solution
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	6.30–6.90 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle or Plastic Bag

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 04/26/2005  
Revision Number: 3rd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NOIRAUDEPRO L/Kt LOW KERATIN  
Product Use: Hair Treatment  
Chemical Family: Mixture  
Manufacture' s Name: Milbon Co., Ltd.  
Manufacture' s Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Distributor' s Name: MILBON USA, Inc.  
Distributor' s Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	HYDROLYZED COLLAGEN
HYDROLYZED KERATIN	PEG-60 HYDROGENATED CASTOR OIL
DIPROPYLENE GLYCOL	METHYLPARABEN
BUTYLENE GLYCOL	FRAGRANCE

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion, Inhalation

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## NOIRAUDEPRO L/Kt LOW KERATIN

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellowish Brown Solution
Odor:	Perfume odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	5.00–6.00 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle or Plastic Bag

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV



**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 04/26/2005  
Revision Number: 3rd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: NOIRAUDEPRO M/Kt MIDDLE KERATIN  
Product Use: Hair Treatment  
Chemical Family: Mixture  
Manufacture' s Name: Milbon Co., Ltd.  
Manufacture' s Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka 534-0015, Japan  
Distributor' s Name: MILBON USA, Inc.  
Distributor' s Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	SODIUM SULFITE
HYDROLYZED KERATIN	PHYTIC ACID
DIPROPYLENE GLYCOL	METHYLPARABEN
BUTYLENE GLYCOL	FRAGRANCE
PPG-4-CETETH-20	

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Eye, Ingestion, Inhalation

**Skin Contact:** No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## NOIRAUDEPRO M/Kt MIDDLE KERATIN

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Approved safety goggles or glasses if necessary
Respiratory/Type:	None required with normal use. If fumes become irritating, use approved respirator.
Gloves/Type:	None required with normal use. Rubber/latex if necessary.
Clothing/Type:	Rubber apron if necessary.
Footwear/Type:	Approved safety shoe protection if necessary.
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Brown Solution
Odor:	Perfume odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	4.80–5.80 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Soluble
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Bottle or Plastic Bag

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	No specific Incompatibility is identified.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to Federal, Provincial and Local regulations.

**SECTION 15 – OTHER INFORMATION**

Date of Last Revision: 06/01/2007  
Revision Number: 3rd  
Prepared By: Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Hairserum Oil F  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

CYCLOPENTASILOXANE  
DIMETHICONE  
HYDROLYZED SOYBEAN EXTRACT  
CARBOXYMETHYL DISULFIDE KERATIN  
SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL  
ARGANIA SPINOSA KERNEL OIL  
SORBITAN OLEATE  
MINERAL OIL  
LAURYL BETAINE  
DIMETHICONOL  
PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE  
BUTYLENE GLYCOL  
AMINOMETHYL PROPANOL  
TOCOPHEROL  
PHENOXYETHANOL  
FRAGRANCE  
WATER

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV  
Auto Ignition Temp. (°C): NAV  
Upper Flammable Limit: NAV  
Lower Flammable Limit: NAV  
Extinguishing Media: Foam, Dry Chemical, CO<sub>2</sub>  
Hazardous Combustion Materials: NAV  
Sensitivity to •Mechanical Impact: NAV  
•Static Discharge: NAV



**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear Liquid  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: NAV  
Gravity@25°C: 0.95-0.96 (when manufactured)  
Solubility in water: Insoluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Bottle

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: NAV  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Teratogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 November, 2014
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Hairserum Oil M  
Product Use: Cosmetics (Leave-in Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

CYCLOPENTASILOXANE  
DIMETHICONE  
DIMETHICONOL  
HYDROLYZED SOYBEAN EXTRACT  
CARBOXYMETHYL DISULFIDE KERATIN  
OENOTHERA BIENNIS (EVENING PRIMROSE) OIL  
ARGANIA SPINOSA KERNEL OIL  
SQUALANE  
ADANSONIA DIGITATA SEED OIL  
C12-15 ALKYL BENZOATE  
SORBITAN OLEATE  
JOJOBA ALCOHOL  
JOJOBA ESTERS  
ISOPROPYL JOJOBATE  
MINERAL OIL  
LAURYL BETAINE  
PEG-9 POLYDIMETHYLSILOXYETHYL DIMETHICONE  
BUTYLENE GLYCOL  
AMINOMETHYL PROPANOL  
TOCOPHEROL  
PHENOXYETHANOL  
FRAGRANCE  
WATER

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV  
Auto Ignition Temp. (°C): NAV  
Upper Flammable Limit: NAV  
Lower Flammable Limit: NAV  
Extinguishing Media: Foam, Dry Chemical, CO<sub>2</sub>  
Hazardous Combustion Materials: NAV  
Sensitivity to •Mechanical Impact: NAV  
•Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear Liquid  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: NAV  
Gravity@25°C: 0.95-0.96 (when manufactured)  
Solubility in water: Insoluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Bottle

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: NAV  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Teratogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 November, 2014
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Hairserum Shampoo F  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
SODIUM LAURETH SULFATE  
SODIUM COCOAMPHOACETATE  
LAURAMIDOPROPYL BETAINE  
HYDROLYZED SOYBEAN EXTRACT  
CARBOXYMETHYL DISULFIDE KERATIN  
SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL  
LEUCINE  
SCUTELLARIA BAICALENSIS ROOT EXTRACT  
POTASSIUM COCOYL HYDROLYZED KERATIN  
PYRIDOXINE HCL  
CALCIUM PANTOTHENATE  
SODIUM PCA  
ACRYLATES/STEARETH-20 METHACRYLATE COPOLYMER  
HYDROXYPROPYL GUAR HYDROXYPROPYLTRIMONIUM CHLORIDE  
LAURYL BETAINE  
COCAMIDE METHYL MEA  
DIPOTASSIUM GLYCYRRHIZATE  
CITRIC ACID  
BUTYLENE GLYCOL  
AMINOMETHYL PROPANOL  
SODIUM HYDROXIDE  
DISODIUM EDTA  
SODIUM BENZOATE  
METHYLCHLOROISOTHIAZOLINONE  
METHYLISOTHIAZOLINONE  
PHENOXYETHANOL  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: May cause irritation to open cuts or abraded skin.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
 Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
 Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
 Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.  
 Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV  
 Auto Ignition Temp. (°C): NAV  
 Upper Flammable Limit: NAV  
 Lower Flammable Limit: NAV  
 Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>  
 Hazardous Combustion Materials: NAV  
 Sensitivity to •Mechanical Impact: NAV  
 •Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution



should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale Yellowish Viscos Solution  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: 6.3 - 6.8 (when manufactured)  
Gravity@25°C: NAV  
Solubility in water: Soluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Bottle, Pouch

## SECTION 11 - REACTIVITY DATA

Stability: Stable  
Incompatibility: NAV  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Teratogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 November, 2014
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Hairserum Shampoo M  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
SODIUM LAURETH SULFATE  
SODIUM C14-16 OLEFIN SULFONATE  
SODIUM LAURETH-6 CARBOXYLATE  
DIPROPYLENE GLYCOL  
ISOSTEARAMIDOPROPYL BETAINE  
COCAMIDOPROPYL BETAINE  
COCAMIDE METHYL MEA  
GLYCOL DISTEARATE  
HYDROLYZED SOYBEAN EXTRACT  
CARBOXYMETHYL DISULFIDE KERATIN  
OENOTHERA BIENNIS (EVENING PRIMROSE) OIL  
LEUCINE  
SCUTELLARIA BAICALENSIS ROOT EXTRACT  
SAXIFRAGA SARMENTOSA EXTRACT  
CETYL ALCOHOL  
POLIANTHES TUBEROSA POLYSACCHARIDE  
POLYQUATERNIUM-10  
POLYQUATERNIUM-52  
LAURYL BETAINE  
PCA ETHYL COCOYL ARGINATE  
SODIUM COCOYL ISETHIONATE  
SODIUM COCOYL GLUTAMATE  
PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE  
PPG-3 CAPRYLYL ETHER  
LAURETH-16  
DISODIUM SUCCINOYL GLYCYRRHETINATE  
DIPOTASSIUM GLYCYRRHIZATE

MALIC ACID  
SODIUM CHLORIDE  
SODIUM LACTATE  
BUTYLENE GLYCOL  
GLYCERIN  
ALCOHOL  
AMINOMETHYL PROPANOL  
SODIUM HYDROXIDE  
PHENOXYETHANOL  
METHYLCHLOROISOTHIAZOLINONE  
METHYLISOTHIAZOLINONE  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TWA)	7060 mg/kg (Rat-Oral)
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 - FIRE FIGHTING MEASURES

Flash Point (°C) , Method: NAV  
Auto Ignition Temp. (°C): NAV  
Upper Flammable Limit: NAV  
Lower Flammable Limit: NAV  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>  
Hazardous Combustion Materials: NAV  
Sensitivity to •Mechanical Impact: NAV  
•Static Discharge: NAV

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White Viscos Solution  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: 6.2 - 6.6 (when manufactured)  
Gravity@25°C: NAV  
Solubility in water: Soluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No

Type Container

Plastic Bottle, Pouch

**SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	NAV
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Teratogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 November, 2014
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value

NIOSH	National Institute for Occupational Safety and Health
REL	Recommended Exposure Limit
LD <sup>50</sup>	Lethal dose 50 percent kill
NAV	Not Available
NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Hairserum Treatment F  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
HYDROXYPROPYL STARCH PHOSPHATE  
STEARYL ALCOHOL  
BEHENTRIMONIUM CHLORIDE  
QUATERNIUM-91  
ISODODECANE  
HYDROLYZED SOYBEAN EXTRACT  
CARBOXYMETHYL ALANYL DISULFIDE KERATIN  
SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL  
SODIUM HYALURONATE  
CERAMIDE 2  
CHOLESTEROL  
CETEARAMIDOETHYL DIETHONIUM HYDROLYZED RICE PROTEIN  
LAURDIMONIUM HYDROXYPROPYL HYDROLYZED KERATIN  
PYRIDOXINE HCL  
CALCIUM PANTOTHENATE  
ISONONYL ISONONANOATE  
SQUALANE  
EUPHORBIA CERIFERA (CANDELILLA) WAX  
DIMER DILINOLEYL DIMER DILINOLEATE  
CAPRYLIC/CAPRIC TRIGLYCERIDE  
CETYL PALMITATE  
MACADAMIA TERNIFOLIA SEED OIL  
LANOLIN ACID  
LAURYL BETAINE  
OLETH-20 PHOSPHATE  
PPG-3 BENZYL ETHER MYRISTATE



KAOLIN  
LACTIC ACID  
BUTYLENE GLYCOL  
ISOPROPYL ALCOHOL  
GLYCERIN  
NEOPENTYL GLYCOL DIHEPTANOATE  
AMINOMETHYL PROPANOL  
SODIUM HYDROXIDE  
ALCOHOL  
DISODIUM EDTA  
PHENOXYETHANOL  
METHYLCHLOROISOTHIAZOLINONE  
METHYLISOTHIAZOLINONE  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)
Kaolin	1332-58-7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA)	-	5000 mg/kg (Rat-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact:	Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
Ingestion:	Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
Inhalation:	If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 - FIRE FIGHTING MEASURES

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Upper Flammable Limit:	NAV
Lower Flammable Limit:	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to · Mechanical Impact:	NAV
· Static Discharge:	NAV

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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## SECTION 8 - HANDLING AND STORAGE

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

Eye/Type:	None required with normal use.
Respiratory/Type:	None required with normal use.
Gloves/Type:	None required with normal use.
Clothing/Type:	None required with normal use.
Footwear/Type:	None required with normal use.
Ventilation Requirements:	General mechanical sufficient

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White Cream
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV

Viscosity:	NAV
pH:	2.8 – 3.2 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Jar, Pouch, Tube, Bottle

**SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	NAV
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Teratogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	1 July 2016
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND**

**IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Hairserum Treatment M  
 Product Use: Cosmetics (Hair Treatment)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
 Emergency Call: MILBON USA, Inc.  
 Phone No.: +1-800-431-8930  
 International Dept. of Milbon Co., Ltd. (Japan)  
 Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, CYCLOPENTASILOXANE, BEHENTRIMONIUM CHLORIDE, BUTYLENE GLYCOL, AMODIMETHICONE, STEARYL ALCOHOL, MACADAMIA TERNIFOLIA SEED OIL, DIMETHICONE, HYDROLYZED SOYBEAN EXTRACT, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, OENOTHERA BIENNIS (EVENING PRIMROSE) OIL, CERAMIDE 2, HYDROGENATED LECITHIN, CHOLESTEROL, PSEUDOSZYMA TSUKUBAENSIS/OLIVE OIL/GLYCERIN/SOY PROTEIN FERMENT, LAURDIMONIUM HYDROXYPROPYL HYDROLYZED KERATIN, GLYCERYL CAPRYLATE, SQUALANE, LANOLIN ACID, CHOLESTERYL LANOLATE, LAURYL BETAINE, OLETH-20 PHOSPHATE, SODIUM STEAROYL GLUTAMATE, STEARTRIMONIUM CHLORIDE, DICOCODIMONIUM CHLORIDE, ETHYLHEXYLGLYCERIN, ISOPROPYL ALCOHOL, GLYCERIN, ALCOHOL, AMINOMETHYL PROPANOL, SODIUM HYDROXIDE, DISODIUM EDTA, ETIDRONIC ACID, PHENOXYETHANOL, FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

#### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.

Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.

Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

#### **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV

Auto Ignition Temp. (°C): NAV

Upper Flammable Limit: NAV

Lower Flammable Limit: NAV

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Hazardous Combustion Materials: NAV

Sensitivity to •Mechanical Impact: NAV

•Static Discharge: NAV

#### **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

#### **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.

Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

#### **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.  
Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White Cream
Odor:	Perfume Odor
Solidification Point/ Melting Point:	NAV
Viscosity:	NAV
pH:	6.0 – 7.0 (when manufactured)
Gravity@25°C:	NAV
Solubility in water:	Miscible
Boiling Rate:	NAV
Vapor Pressure @25°C:	NAV
Vapor Density:	NAV
Evaporation Rate:	NAV
Pressurized Container	No
Type Container	Plastic Jar, Pouch, Tube, Bottle

**SECTION 11 - REACTIVITY DATA**

Stability:	Stable
Incompatibility:	NAV
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Teratogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	5 October, 2015
Revision Number:	2nd
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-



**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA BASE ACT ESSENCE  
Product Use: Cosmetics (Scalp Lotion)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
ALCOHOL  
BUTYLENE GLYCOL  
STEPHANIA CEPHARANTHA ROOT EXTRACT  
SWERTIA JAPONICA EXTRACT  
PANTHENYL ETHYL ETHER  
DIPOTASSIUM GLYCYRRHIZATE  
GLYCYRRHIZA GLABRA (LICORICE) LEAF EXTRACT  
HYDROLYZED SOYBEAN EXTRACT  
ALGAE EXTRACT  
SOPHORA ANGUSTIFOLIA ROOT EXTRACT  
MORUS ALBA ROOT EXTRACT  
CALENDULA OFFICINALIS FLOWER EXTRACT  
CITRUS AURANTIUM AMARA (BITTER ORANGE) FRUIT EXTRACT  
PRUNUS PERSICA (PEACH) KERNEL EXTRACT  
PANAX GINSENG ROOT EXTRACT  
SODIUM HYALURONATE  
MENTHOL  
PEG-40 HYDROGENATED CASTOR OIL  
SODIUM CITRATE  
ASCORBIC ACID  
CITRIC ACID  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

Eye Contact: Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain doctor's advice immediately.

Ingestion: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV

Auto Ignition Temp. (°C): NAV

Upper Flammable Limit: NAV

Lower Flammable Limit: NAV

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Hazardous Combustion Materials: NAV

Sensitivity to •Mechanical Impact: NAV

•Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish Clear Solution  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: 6.3 - 8.3 (when manufactured)  
Gravity@25°C: NAV  
Solubility in water: Soluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Bottle

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Heat or Flame  
Hazardous Decomposition: NAV  
Hazardous Polymerization: Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	18 December, 2013
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA CLEAR SPA FOAM  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
DISODIUM LAURETH SULFOSUCCINATE  
PETROLEUM DISTILLATES  
SODIUM LAURETH-4 CARBOXYLATE  
PPG-2 COCAMIDE  
CARBON DIOXIDE  
ISOPENTANE  
HYDROLYZED SOYBEAN EXTRACT  
SACCHAROMYCES/PERSIMMON FRUIT JUICE FERMENT EXTRACT  
CAMELLIA SINENSIS LEAF EXTRACT  
SANGUISORBA OFFICINALIS ROOT EXTRACT  
ARNICA MONTANA FLOWER EXTRACT  
ECHINACEA PURPUREA EXTRACT  
PIROCTONE OLAMINE  
PEG-32  
POLYQUATERNIUM-10  
POLYQUATERNIUM-52  
POLYGLYCERYL-10 LAURATE  
SODIUM CARBONATE  
CITRIC ACID  
BUTYLENE GLYCOL  
ALCOHOL  
MENTHOL  
SODIUM BICARBONATE  
CHLORAMINE T  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

Eye Contact: Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain doctor's advice immediately.

Ingestion: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAP

Auto Ignition Temp. (°C): NAV

Upper Flammable Limit: NAV

Lower Flammable Limit: NAV

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Hazardous Combustion Materials: NAV

Sensitivity to •Mechanical Impact: NAV

•Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Foam  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: 5.3 - 6.5 (when manufactured)  
Gravity@25°C: NAV  
Solubility in water: Soluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: Yes  
Type Container: Aluminum Bottle

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Heat or Flame  
Hazardous Decomposition: NAV  
Hazardous Polymerization: Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	ID 8000: Consumer commodity, Class 9, Pkg.Y963
IMDG (Sea):	UN 1950: Aerosols, Class 2.1, Ltd. Qty.

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	10 June, 2013
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-





## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA ENRICHED SHAMPOO  
Product Use: Cosmetics (Shampoo)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, SODIUM LAURETH SULFATE, DIPROPYLENE GLYCOL, ISOSTEARAMIDOPROPYL BETAINE, SODIUM C14-16 OLEFIN SULFONATE, SODIUM LAURETH-6 CARBOXYLATE, COCAMIDOPROPYL BETAINE, COCAMIDE METHYL MEA, HYDROLYZED SOYBEAN EXTRACT, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, SAXIFRAGA SARMENTOSA EXTRACT, SODIUM LAUROYL ASPARTATE, DIPOTASSIUM GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, POLIANTHES TUBEROSA POLYSACCHARIDE, PCA ETHYL COCOYL ARGINATE, PEG-40 HYDROGENATED CASTOR OIL PCA ISOSTEARATE, SODIUM COCOYL ISETHIONATE, LAURYL BETAINE, POLYQUATERNIUM-10, SODIUM CHLORIDE, MALIC ACID, BUTYLENE GLYCOL, GLYCERIN, ALCOHOL, AMINOMETHYL PROPANOL, SODIUM HYDROXIDE, PHENOXYETHANOL, METHYLCHLOROISOTHIAZOLINONE, METHYLISOTHIAZOLINONE, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Sodium Hydroxide	1310-73-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	500 mg/kg (Rabbit-Oral)	< 0.1%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately



- laundry the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Yellowish Liquid
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 6.0-7.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Soluble
- Pressurized Container: No
- Type Container: Plastic Bottle, Plastic Pouch



## SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## SECTION 16 - OTHER INFORMATION

Date of Last Revision:	14 March 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA ENRICHED TREATMENT F  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN, STEARAMIDOPROPYL DIMETHYLAMINE, PENTYLENE GLYCOL, AMODIMETHICONE, HYDROLYZED KERATIN, ISODODECANE, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, HYDROLYZED KERATIN PG-PROPYL METHYLSILANEDIOL, HYDROLYZED SOYBEAN EXTRACT, SODIUM HYALURONATE, SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL, LAURYL BETAINE, DICOCODIMONIUM CHLORIDE, STEARTRIMONIUM CHLORIDE, AMINOETHYLAMINOPROPYL DIMETHICONE, LACTIC ACID, KAOLIN, BUTYLENE GLYCOL, NEOPENTYL GLYCOL DIHEPTANOATE, AMINOMETHYL PROPANOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Yellowish White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.0-6.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube, Plastic Jar, Plastic Bottle, Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available



Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 14 March 2017  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA ENRICHED TREATMENT M  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN, STEARAMIDOPROPYL DIMETHYLAMINE, PENTYLENE GLYCOL, AMODIMETHICONE, DIMETHICONE, AMINOETHYLAMINOPROPYL DIMETHICONE, HYDROLYZED KERATIN, BEHENTRIMONIUM CHLORIDE, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, HYDROLYZED SOYBEAN EXTRACT, LAUROYL LYSINE, ISODODECANE, OENOTHERA BIENNIS (EVENING PRIMROSE) OIL, MACADAMIA TERNIFOLIA SEED OIL, CHOLESTERYL LANOLATE, LAURYL BETAINE, DICOCODIMONIUM CHLORIDE, STEARTRIMONIUM CHLORIDE, LACTIC ACID, DIPROPYLENE GLYCOL, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, NEOPENTYL GLYCOL DIHEPTANOATE, AMINOMETHYL PROPANOL, ETIDRONIC ACID, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is



removed.

- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: Yellowish White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 4.5-6.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Plastic Tube, Plastic Jar, Plastic Bottle, Plastic Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable





Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National and Local regulations.
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## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	Not classified as dangerous goods
IMDG (Sea):	Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	14 March 2017
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Refining Micro Mousse  
Product Use: Cosmetics (Scalp Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, PETROLEUM DISTILLATES, BEHENAMIDOPROPYL DIMETHYLAMINE, CETYL ALCOHOL, OCTYLDODECANOL, MACADAMIA TERNIFOLIA SEED OIL, CARBON DIOXIDE, RESVERATROL, VITIS VINIFERA (GRAPE) LEAF/SEED/SKIN EXTRACT, ISOSTEAROYL HYDROLYZED COLLAGEN, HYDROLYZED COLLAGEN, SUCCINOYL ATELOCOLLAGEN, SOLUBLE COLLAGEN, DECARBOXY CARNOSINE HCL, ACETYL GLUCOSAMINE, HYDROLYZED SOYBEAN EXTRACT, HYDROXYPROPYLTRIMONIUM HYDROLYZED SILK, ANGELICA ACUTILOBA ROOT EXTRACT, ARTEMISIA PRINCEPS LEAF EXTRACT, ISODODECANE, NEOPENTYL GLYCOL DIHEPTANOATE, ETHYL MACADAMATE, STEARYL ALCOHOL, ISOSTEARIC ACID, POLYGLYCERYL-4 LAURYL ETHER, SUCROSE LAURATE, LACTIC ACID, MALIC ACID, BUTYLENE GLYCOL, SORBITOL, ALCOHOL, MENTHOL, TOCOPHEROL, DISODIUM EDTA, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Carbon Dioxide	124-38-9	5000 ppm	30000 ppm (STEL)	30000 ppm (STEL)		< 0.9%
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)	< 0.1%
Butane	106-97-8		1000 ppm (TWA)	800 ppm (TWA)		< 4.0%
2-Methylbutane (Isopentane)	78-78-4	1000 ppm	120 ppm (TWA)	600 ppm (TWA)		< 0.05%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable



## SECTION 5 - FIRST AID MEASURES

- Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.
- Eye Contact:** Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.
- Ingestion:** Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## SECTION 6 - FIRE FIGHTING MEASURES

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** Water, Foam, Dry Chemical, CO<sub>2</sub>

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

- Spill/Leak Procedure:** Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## SECTION 8 - HANDLING AND STORAGE

- Handling Procedures:** Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements:** Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protective Equipment

- Eye/Type:** None required with normal use.
- Respiratory/Type:** None required with normal use.
- Gloves/Type:** None required with normal use.
- Clothing/Type:** None required with normal use.
- Footwear/Type:** None required with normal use.
- Ventilation Requirements:** General mechanical ventilator

## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** White Foam
- Odor:** Perfume Odor
- Viscosity:** Not available
- pH:** 5.0 - 6.5 (when manufactured)



Gravity@25 °C:	Not available
Solubility in water:	Miscible
Pressurized Container	Yes
Type Container	Aluminum Bottle

#### SECTION 11 - REACTIVITY DATA

Stability:	Stable
Incompatibility:	Not available
Hazardous Decomposition:	Will not occur
Hazardous Polymerization:	Will not occur

#### SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Assessed as safe with Skin Patch Test
Carcinogenicity:	Ingredients are not listed as CMR substances.
Mutagenicity:	Ingredients are not listed as CMR substances.
Reproductive Effect:	Ingredients are not listed as CMR substances.

#### SECTION 13 - INFLUENCE ON ENVIRONMENT

Dissolubility:	Not available
Accumulation:	Not available
Detoxification:	Not available

#### SECTION 14 - DISPOSAL INFORMATION

Waste Disposal:	Dispose of according to National and Local regulations.
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#### SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	ID 8000: Consumer commodity, Class 9, Pkg.Y963
IMDG (Sea):	UN 1950: Aerosols, Class 2.1, Ltd. Qty.

#### SECTION 16 - OTHER INFORMATION

Date of Last Revision:	19 March, 2015
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value



NIOSH National Institute for Occupational Safety and Health

REL Recommended Exposure Limit

LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name:	PLARMIA MOISTURE BALANCING SCALP SHAMPOO
Product Use:	Cosmetics (Scalp Shampoo)
Chemical Family:	Mixture
Manufacturer's Name:	Milbon Co., Ltd.
Manufacturer's Address:	2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan
Distributor's Name:	MILBON USA, Inc.
Distributor's Address:	568 Broadway, Suite 606, New York, NY 10012
Emergency Call:	MILBON USA, Inc.
	Phone No.: +1-800-431-8930
	International Dept. of Milbon Co., Ltd. (Japan)
	Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
SODIUM LAURETH-4 CARBOXYLATE  
DISODIUM LAURETH SULFOSUCCINATE  
COCAMIDE METHYL MEA  
LAURAMIDOPROPYL BETAINE  
SODIUM LAURETH-11 CARBOXYLATE  
PIROCTONE OLAMINE  
HYDROLYZED SOYBEAN EXTRACT  
ROYAL JELLY EXTRACT  
GLYCYRRHIZA GLABRA (LICORICE) LEAF EXTRACT  
FUCUS VESICULOSUS EXTRACT  
POLYQUATERNIUM-10  
POLYQUATERNIUM-52  
CITRIC ACID  
BUTYLENE GLYCOL  
GLYCERIN  
PEG-32  
ALCOHOL  
SODIUM BENZOATE  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

Eye Contact: Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain doctor's advice immediately.

Ingestion: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV

Auto Ignition Temp. (°C): NAV

Upper Flammable Limit: NAV

Lower Flammable Limit: NAV

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Hazardous Combustion Materials: NAV

Sensitivity to •Mechanical Impact: NAV

•Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Yellowish Viscos Solution  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: 4.6 - 6.6 (when manufactured)  
Gravity@25°C: NAV  
Solubility in water: Soluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Bottle, Pouch

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: NAV  
Hazardous Decomposition: NAV  
Hazardous Polymerization: Will not occur



**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	18 December, 2013
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name:	PLARMIA MOISTURE BALANCING SCALP TREATMENT
Product Use:	Cosmetics (Scalp Treatment)
Chemical Family:	Mixture
Manufacture's Name:	Milbon Co., Ltd.
Manufacture's Address:	2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan
Distributor's Name:	MILBON USA, Inc.
Distributor's Address:	568 Broadway, Suite 606, New York, NY 10012
Emergency Call:	MILBON USA, Inc.
	Phone No.: +1-800-431-8930
	International Dept. of Milbon Co., Ltd. (Japan)
	Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
CETYL ALCOHOL  
BEHENTRIMONIUM CHLORIDE  
BUTYLENE GLYCOL  
STEARYL ALCOHOL  
ISOSTEARYL ISOSTEARATE  
KAOLIN  
HYDROLYZED SOYBEAN EXTRACT  
GLYCYRRHIZA GLABRA (LICORICE) LEAF EXTRACT  
HYDROLYZED ROYAL JELLY PROTEIN  
FUCUS VESICULOSUS EXTRACT  
DIPOTASSIUM GLYCYRRHIZATE  
SODIUM HYALURONATE  
DIISOPROPYL ADIPATE  
PENTAERYTHRITYL TETRAISOSTEARATE  
ETHYL MACADAMATE  
SUCROSE LAURATE  
MALIC ACID  
ALCOHOL  
ISOPROPYL ALCOHOL  
TOCOPHEROL  
PHENOXYETHANOL  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

Eye Contact: Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain doctor's advice immediately.

Ingestion: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV

Auto Ignition Temp. (°C): NAV

Upper Flammable Limit: NAV

Lower Flammable Limit: NAV

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Hazardous Combustion Materials: NAV

Sensitivity to •Mechanical Impact: NAV

•Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container.  
Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: 4.0 – 5.0 (when manufactured)  
Gravity@25°C: NAV  
Solubility in water: Miscible  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Cup, Pouch, Tube

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: NAV  
Hazardous Decomposition: NAV  
Hazardous Polymerization: Will not occur

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	18 December, 2013
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA MOISTURE LIFTER  
Product Use: Cosmetics (Scalp Lotion)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER  
ALCOHOL  
DIPROPYLENE GLYCOL  
HYDROLYZED SOYBEAN EXTRACT  
GLYCERYLAMIDOETHYL METHACRYLATE/STEARYL METHACRYLATE COPOLYMER  
PANAX GINSENG ROOT EXTRACT  
THYMUS SERPILLUM EXTRACT  
ORIGANUM MAJORANA LEAF EXTRACT  
LUFFA CYLINDRICA FRUIT/LEAF/STEM EXTRACT  
ZOSTERA MARINA EXTRACT  
JELLYFISH EXTRACT  
HYDROLYZED RICE LEAF EXTRACT  
HYDROLYZED CONCHIOLIN PROTEIN  
SODIUM ACETYLATED HYALURONATE  
SODIUM HYALURONATE  
PANTHENYL ETHYL ETHER  
DIPOTASSIUM GLYCYRRHIZATE  
HYDROXYETHYL UREA  
PPG-13-DECYLTETRADECETH-24  
ETHYL LACTATE  
PEG-10 METHYL ETHER DIMETHICONE  
BUTYLENE GLYCOL  
GLYCERIN  
FRAGRANCE

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion

Skin Contact: May cause irritation to open cuts or abraded skin.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: NAP

**SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

Eye Contact: Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain doctor's advice immediately.

Ingestion: Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

**SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C) , Method: NAV

Auto Ignition Temp. (°C): NAV

Upper Flammable Limit: NAV

Lower Flammable Limit: NAV

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Hazardous Combustion Materials: NAV

Sensitivity to •Mechanical Impact: NAV

•Static Discharge: NAV

**SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

**SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

**SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type: None required with normal use.  
Respiratory/Type: None required with normal use.  
Gloves/Type: None required with normal use.  
Clothing/Type: None required with normal use.  
Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical sufficient

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Clear Solution  
Odor: Perfume Odor  
Solidification Point/ Melting Point: NAV  
Viscosity: NAV  
pH: 5.5 - 6.5 (when manufactured)  
Gravity@25°C: 0.9-1.0 (when manufactured)  
Solubility in water: Soluble  
Boiling Rate: NAV  
Vapor Pressure @25°C: NAV  
Vapor Density: NAV  
Evaporation Rate: NAV  
Pressurized Container: No  
Type Container: Plastic Bottle

**SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Heat or Flame  
Hazardous Decomposition: NAV  
Hazardous Polymerization: Will not occur



**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to Federal, Provincial and Local regulations.
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**SECTION 15 - TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision:	10 June, 2013
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE.**

**NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Refining Hairserum 1  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CETYL ALCOHOL, AMINOETHYLAMINOPROPYL DIMETHICONE, CYCLOPENTASILOXANE, STEARTRIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, AMODIMETHICONE, LYSINE HCL, PYRIDOXINE HCL, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, HYDROLYZED SOYBEAN EXTRACT, CHOLESTERYL LANOLATE, ARGININE, LAURYL BETAINE, DICOCODIMONIUM CHLORIDE, ISOPROPYL ALCOHOL, BUTYLENE GLYCOL, AMINOMETHYL PROPANOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.  
Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is



rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.

Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

Flash Point (°C), Method: Not available  
Auto Ignition Temp. (°C): Not available  
Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

Handling Procedures: Maintain good personal hygiene. Keep bulk covered.  
Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal Protective Equipment

Eye/Type: None required with normal use.

Respiratory/Type: None required with normal use.

Gloves/Type: None required with normal use.

Clothing/Type: None required with normal use.

Footwear/Type: None required with normal use.

Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White Cream  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 5.5 – 7.0 (when manufactured)  
Gravity@25 °C: Not available  
Solubility in water: Miscible  
Pressurized Container: No  
Type Container: Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

Stability: Stable  
Incompatibility: Not available  
Hazardous Decomposition: Will not occur



Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 5 March 2016  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Refining Hairserum 2 F  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CYCLOPENTASILOXANE, CETYL ALCOHOL, DIMETHICONE, STEARTRIMONIUM CHLORIDE, PPG-2-BUTETH-1, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL, HYDROLYZED SOYBEAN EXTRACT, LIMNANTHES ALBA (MEADOWFOAM) SEED OIL, CHOLESTERYL LANOLATE, DIHYDROXYPROPYL ARGININE HCL, ETHYLHEXYL ISONONANOATE, LAURYL BETAINE, DICOCODIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, AMODIMETHICONE, LACTIC ACID, BUTYLENE GLYCOL, ISOPROPYL ALCOHOL, AMINOMETHYL PROPANOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 1%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Personal Protective Equipment
- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.0 - 7.0 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available



Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 5 March 2016  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co., Ltd.

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Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Refining Hairserum 2 M  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, CYCLOPENTASILOXANE, CETYL ALCOHOL, DIMETHICONE, STEARTRIMONIUM CHLORIDE, PPG-2-BUTETH-1, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, OENOTHERA BIENNIS (EVENING PRIMROSE) OIL, HYDROLYZED SOYBEAN EXTRACT, CHOLESTERYL LANOLATE, LIMNANTHES ALBA (MEADOWFOAM) SEED OIL, DIHYDROXYPROPYL ARGININE HCL, ISOPROPYL ALCOHOL, ETHYLHEXYL ISONONANOATE, LAURYL BETAINE, DICOCODIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, AMODIMETHICONE, LACTIC ACID, BUTYLENE GLYCOL, AMINOMETHYL PROPANOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)	< 0.2%

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.





- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Cream
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 5.0 - 6.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Miscible
- Pressurized Container: No
- Type Container: Aluminum Pouch

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available



Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): Not classified as dangerous goods  
IMDG (Sea): Not classified as dangerous goods

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 5 March 2016  
Revision Number: 2nd  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-



## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PLARMIA Volumizer+  
Product Use: Cosmetics (Hair Treatment)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: +1-800-431-8930 (MILBON USA, Inc.)

### **SECTION 2 – INGREDIENTS**

WATER, PETROLEUM DISTILLATES, CARBON DIOXIDE, HYDROLYZED HYALURONIC ACID, CARBOXYMETHYL ALANYL DISULFIDE KERATIN, HYDROLYZED SILK PG-PROPYL METHYLSILANEDIOL, ARGANIA SPINOSA KERNEL OIL, POLYQUATERNIUM-11, HYDROLYZED SOYBEAN EXTRACT, ECHINACEA PURPUREA EXTRACT, HYDROLYZED ROYAL JELLY PROTEIN, CORN STARCH MODIFIED, SILICA, CETYL ALCOHOL, POLYQUATERNIUM-50, POLYQUATERNIUM-64, PVP, LAURYL BETAINE, PCA ETHYL COCOYL ARGINATE, LAURETH-2, LAURETH-4, LAURETH-21, PEG-40 HYDROGENATED CASTOR OIL, BEHENTRIMONIUM METHOSULFATE, DIMETHICONE, LACTIC ACID, BUTYLENE GLYCOL, AMINOMETHYL PROPANOL, PHENOXYETHANOL, FRAGRANCE

### **SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition

### **SECTION 4 - HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion  
Skin Contact: No Specific hazard is identified under normal conditions. May cause irritation to open cuts or abraded skin.  
Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated.  
Ingestion: May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.  
Inhalation: Not applicable

### **SECTION 5 - FIRST AID MEASURES**

Skin Contact: If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing. If there is any rash, redness, white spot, blister or other skin abnormalities, obtain Doctor's advice immediately.  
Eye Contact: Obtain Doctor's advice immediately. Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed.



- Ingestion: Obtain medical check immediately. Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water.
- Inhalation: If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## **SECTION 6 - FIRE FIGHTING MEASURES**

- Flash Point (°C), Method: Not available
- Auto Ignition Temp. (°C): Not available
- Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

## **SECTION 7 - ACCIDENTAL RELEASE MEASURE**

- Spill/Leak Procedure: Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.

## **SECTION 8 - HANDLING AND STORAGE**

- Handling Procedures: Maintain good personal hygiene. Keep bulk covered.
- Storage Requirements: Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame.

## **SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Personal Protective Equipment**

- Eye/Type: None required with normal use.
- Respiratory/Type: None required with normal use.
- Gloves/Type: None required with normal use.
- Clothing/Type: None required with normal use.
- Footwear/Type: None required with normal use.
- Ventilation Requirements: General mechanical ventilator

## **SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance: White Foam
- Odor: Perfume Odor
- Viscosity: Not available
- pH: 4.5-6.5 (when manufactured)
- Gravity@25 °C: Not available
- Solubility in water: Soluble
- Pressurized Container: Yes
- Type Container: Aluminum Bottle

## **SECTION 11 - REACTIVITY DATA**

- Stability: Stable
- Incompatibility: Not available



Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

## **SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product: Assessed as safe with Skin Patch Test  
Carcinogenicity: Ingredients are not listed as CMR substances.  
Mutagenicity: Ingredients are not listed as CMR substances.  
Reproductive Effect: Ingredients are not listed as CMR substances.

## **SECTION 13 - INFLUENCE ON ENVIRONMENT**

Dissolubility: Not available  
Accumulation: Not available  
Detoxification: Not available

## **SECTION 14 - DISPOSAL INFORMATION**

Waste Disposal: Dispose of according to National and Local regulations.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): ID 8000: Consumer commodity, Class 9, Pkg.Y963  
IMDG (Sea): UN 1950: Aerosols, Class 2.1, Ltd. Qty.

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 25 May, 2016  
Revision Number: 1st  
Prepared By: Central Research Institute, Milbon Co., Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations: OSHA Occupational Safety and Health Administration  
PEL Permissible Exposure Limit  
TWA Time Weighted Average  
STEL Short Term Exposure Limit  
ACGIH American Conference of Governmental Industrial Hygienists  
TLV Threshold Limit Value  
NIOSH National Institute for Occupational Safety and Health  
REL Recommended Exposure Limit  
LD<sup>50</sup> Lethal dose 50 percent kill

-Nothing Follows-

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PREJUME C/T-H Hair Waving Lotion 1  
Product Use: Cosmetics (Permanent Wave)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	PEG-40 HYDROGENATED LANOLIN
CYSTEINE	PPG-15 STEARYL ETHER
ETHANOLAMINE	LANETH-5
AMMONIUM THIOGLYCOLATE	LANETH-20
ACETYL CYSTEINE	DISODIUM SUCCINOYL GLYCYRRHETINATE
ORANGE ROUGHY OIL	SODIUM PCA
LANOLIN ACID	DIAMMONIUM DITHIODIGLYCOLATE
LIMNANTHES ALBA (MEADOWFOAM) SEED OIL	DIAMMONIUM PHOSPHATE
LANOLIN	AMODIMETHICONE
HYDROXYPROPYL METHYLCELLULOSE STEAROXY ETHER	BUTYLENE GLYCOL
QUATERNIUM-33	DIPROPYLENE GLYCOL
POLYQUATERNIUM-11	ISOPROPYL ALCOHOL
SODIUM COCOAMPHOACETATE	GLYCERIN
BEHENTRIMONIUM CHLORIDE	AMMONIUM HYDROXIDE
STEARTRIMONIUM CHLORIDE	PENTASODIUM PENTETATE
DICOCODIMONIUM CHLORIDE	ETIDRONIC ACID
OLETH-10	PHENOXYETHANOL
OLETH-20	FRAGRANCE

## PREJUME C/T-H Hair Waving Lotion 1

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ammonia	7664-41-7	50 ppm	35 ppm (STEL)	35 ppm (STEL)	
Ammonium thioglycolate	5421-46-5	–	–	–	165 mg/kg (Rat-Intraperitoneal)
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)
Isopropyl Alcohol	67-63-0	400 ppm	500 ppm (STEL)	500 ppm (STEL)	5045 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

- Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.
- Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.
- Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.
- Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

- Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.
- Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.
- Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.
- Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## PREJUME C/T-H Hair Waving Lotion 1

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame. Keep out of reach of children.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Dry towel, Approved safety goggles or glasses
Respiratory/Type:	None required with normal use.
Gloves/Type:	Rubber/Latex gloves
Clothing/Type:	Rubber/Latex/Plastic apron
Footwear/Type:	Waterproof footwear
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Slightly Whitish Solution
Odor:	Perfume Odor
pH:	8.8–9.3 (when manufactured)
Gravity@25°C	NAV
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Paper Carton

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur



## PREJUME C/T-H Hair Waving Lotion 1

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National, Provincial and Local regulations.
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**SECTION 15 – TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 – OTHER INFORMATION**

Date of Last Revision:	10 July, 2011
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PREJUME CYS Hair Waving Lotion 1  
Product Use: Cosmetics (Permanent Wave)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	LANETH-20
CYSTEINE	CETETH-30
ETHANOLAMINE	CETETH-40
AMMONIUM THIOGLYCOLATE	COCAMIDOPROPYL BETAINE
ACETYL CYSTEINE	SODIUM LAURYL SULFATE
DIAMMONIUM PHOSPHATE	PPG-15 STEARYL ETHER
ORANGE ROUGHY OIL	DISODIUM SUCCINOYL GLYCRRHETINATE
LANOLIN	DIAMMONIUM DITHIODIGLYCOLATE
LANOLIN ACID	DIPROPYLENE GLYCOL
LIMNANTHES ALBA (MEADOWFOAM) SEED OIL	GLYCERIN
CETYL ALCOHOL	AMMONIUM HYDROXIDE
LAURYL ALCOHOL	PENTASODIUM PENTETATE
COCAMINE OXIDE	ETIDRONIC ACID
PEG-40 HYDROGENATED LANOLIN	PHENOXYETHANOL
LANETH-5	FRAGRANCE

## PREJUME CYS Hair Waving Lotion 1

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ammonia	7664-41-7	50 ppm	35 ppm (STEL)	35 ppm (STEL)	
Ammonium thioglycolate	5421-46-5	–	–	–	165 mg/kg (Rat-Intraperitoneal)
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## PREJUME CYS Hair Waving Lotion 1

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame. Keep out of reach of children.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Dry towel, Approved safety goggles or glasses
Respiratory/Type:	None required with normal use.
Gloves/Type:	Rubber/Latex gloves
Clothing/Type:	Rubber/Latex/Plastic apron
Footwear/Type:	Waterproof footwear
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Slightly Whitish Solution
Odor:	Perfume Odor
pH:	8.7–9.2 (when manufactured)
Gravity@25°C	NAV
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Paper Carton

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National, Provincial and Local regulations.
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**SECTION 15 – TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 – OTHER INFORMATION**

Date of Last Revision:	10 July, 2011
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PREJUME T/C Hair Waving Lotion 1  
Product Use: Cosmetics (Permanent Wave)  
Chemical Family: Mixture  
Manufacture's Name: Milbon Co., Ltd.  
Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
Distributor's Name: MILBON USA, Inc.  
Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
Emergency Call: MILBON USA, Inc.  
Phone No.: +1-800-431-8930  
International Dept. of Milbon Co., Ltd. (Japan)  
Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	POLYQUATERNIUM-22
ETHANOLAMINE THIOGLYCOLATE	OLETH-10
AMMONIUM THIOGLYCOLATE	OLETH-20
GLYCERIN	POLYQUATERNIUM-10
CYSTEINE HCL	FRAGRANCE
ETHANOLAMINE	CETEARETH-13
DIAMMONIUM DITHIODIGLYCOLATE	CETEARETH-7
AMMONIUM BICARBONATE	SHELLAC
PEG-30 SOY STEROL	BENZYL ALCOHOL
PPG-33-BUTETH-45	DISODIUM SUCCINOYL GLYCIRRHETINATE
PEG-12 DIMETHICONE	SODIUM CHLORIDE
CETETH-150	ACETIC ACID
AMODIMETHICONE	SCUTELLARIA BAICALENSIS ROOT EXTRACT
PENTASODIUM PENTETATE	TRIETHANOLAMINE
COCAMIDOPROPYL BETAINE	SODIUM ACETATE
BUTYLENE GLYCOL	PHOSPHORIC ACID
AMMONIUM HYDROXIDE	

## PREJUME T/C Hair Waving Lotion 1

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ammonia	7664-41-7	50 ppm	35 ppm (STEL)	35 ppm (STEL)	
Ethanolamine thioglycolate	126-97-6	–	–	–	114 mg/kg (Rat-Oral) as thioglycolic acid
Ammonium thioglycolate	5421-46-5	–	–	–	165 mg/kg (Rat-Intraperitoneal)
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)
Triethanolamine	102-71-6	–	5 mg/m <sup>3</sup> (TWA)	–	8680 mg/kg (Rat-Oral)
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup> (STEL)	3 mg/m <sup>3</sup> (STEL)	1530 mg/kg (Rat-Oral)
Acetic Acid	64-19-7	10 ppm	10 ppm	10 ppm	–

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## PREJUME T/C Hair Waving Lotion 1

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame. Keep out of reach of children.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Dry towel, Approved safety goggles or glasses
Respiratory/Type:	None required with normal use.
Gloves/Type:	Rubber/Latex gloves
Clothing/Type:	Rubber/Latex/Plastic apron
Footwear/Type:	Waterproof footwear
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellowish clear solution
Odor:	Perfume Odor
pH:	8.5–8.8 (when manufactured)
Gravity@25°C	NAV
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Paper Carton

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur



## PREJUME T/C Hair Waving Lotion 1

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National, Provincial and Local regulations.
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**SECTION 15 – TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 – OTHER INFORMATION**

Date of Last Revision:	10 July, 2011
Revision Number:	1st
Prepared By:	Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–

**MATERIAL SAFETY DATA SHEET****SECTION 1 – MANUFACTURE AND PRODUCT IDENTIFICATION**

Product Name: PREJUME TG Hair Waving Lotion 1  
 Product Use: Cosmetics (Permanent Wave)  
 Chemical Family: Mixture  
 Manufacture's Name: Milbon Co., Ltd.  
 Manufacture's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 568 Broadway, Suite 606, New York, NY 10012  
 Emergency Call: MILBON USA, Inc.  
 Phone No.: +1-800-431-8930  
 International Dept. of Milbon Co., Ltd. (Japan)  
 Phone No.: +81-6-6928-2354

**SECTION 2 – INGREDIENTS**

WATER	OLETH-20
ETHANOLAMINE THIOGLYCOLATE	POLYQUATERNIUM-10
AMMONIUM THIOGLYCOLATE	SHELLAC
GLYCERIN	FRAGRANCE
DIAMMONIUM DITHIODIGLYCOLATE	ALCOHOL
ETHANOLAMINE	CETEARETH-13
PPG-24-GLYCERETH-24	CETEARETH-7
AMMONIUM BICARBONATE	TRIETHANOLAMINE
PEG-30 SOY STEROL	GENTIANA LUTEA ROOT EXTRACT
PEG-12 DIMETHICONE	BENZYL ALCOHOL
CETETH-150	DIPOTASSIUM GLYCYRRHIZATE
POLYQUATERNIUM-22	DISODIUM SUCCINOYL GLYCYRRHETINATE
AMODIMETHICONE	SODIUM CHLORIDE
PENTASODIUM PENTETATE	ACETIC ACID
COCAMIDOPROPYL BETAINE	SODIUM ACETATE
AMMONIUM HYDROXIDE	PHOSPHORIC ACID
OLETH-10	

**SECTION 3 – HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>
Ammonia	7664-41-7	50 ppm	35 ppm (STEL)	35 ppm (STEL)	
Ethanolamine thioglycolate	126-97-6	–	–	–	114 mg/kg (Rat-Oral) as thioglycolic acid

## PREJUME TG Hair Waving Lotion 1

Ammonium thioglycolate	5421-46-5	–	–	–	165 mg/kg (Rat-Intraperitoneal)
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)
Triethanolamine	102-71-6	–	5 mg/m3 (TWA)	–	8680 mg/kg (Rat-Oral)
Phosphoric Acid	7664-38-2	1 mg/m3	3 mg/m3 (STEL)	3 mg/m3 (STEL)	1530 mg/kg (Rat-Oral)
Acetic Acid	64-19-7	10 ppm	10 ppm	10 ppm	–
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm (TWA)	1000 ppm (TEA)	7060 mg/kg (Rat-Oral)

**SECTION 4 – HAZARD IDENTIFICATION**

Routes of Entry: Skin, Eye, Ingestion, Inhalation

**Skin Contact:** May cause irritation under normal conditions, will cause stinging and burning sensation to open cuts or abraded skin.

**Eye Contact:** May cause redness, burning, stinging, possible serious injury or blindness if left untreated.

**Ingestion:** May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

**Inhalation:** May cause irritation to respiratory system resulting in hoarseness and tightness of throat in case of prolonged exposure.

**SECTION 5 – FIRST AID MEASURES**

**Skin Contact:** If irritation does occur, remove the contaminated clothing and flush skin with lukewarm, gently flowing water for 5 minutes or until the contaminant is removed. Immediately launder the contaminated clothing.

**Eye Contact:** Immediately flush eyes with lukewarm, gently flowing water while holding eyelids apart for 15 minutes, or until the contaminant is removed. Obtain Doctor's advice immediately.

**Ingestion:** Never give anything by mouth if the victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. Do not induce vomiting. Have the victim drink water. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration. Repeat administration of water. Obtain medical check immediately.

**Inhalation:** If symptoms are experienced, move the victim to fresh air and obtain medical advice if symptoms persist.

## PREJUME TG Hair Waving Lotion 1

**SECTION 6 – FIRE FIGHTING MEASURES**

Flash Point (°C) , Method:	NAV
Auto Ignition Temp. (°C):	NAV
Extinguishing Media:	Water, Foam, Dry Chemical, CO <sub>2</sub>
Hazardous Combustion Materials:	NAV
Sensitivity to •Mechanical Impact:	NAV
•Static Discharge:	NAV

**SECTION 7 – ACCIDENTAL RELEASE MEASURE**

Spill/Leak Procedure:	Scrape up material and place in suitable, labeled container. Flush area with plenty of water and detergent solution. Caution should be exercised as area will be slippery.
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**SECTION 8 – HANDLING AND STORAGE**

Handling Procedures:	Maintain good personal hygiene. Keep bulk covered.
Storage Requirements:	Store in cool dry place. Keep Containers tightly closed when not in use. Avoid freezing, excessive heat or flame. Keep out of reach of children.

**SECTION 9 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Personal Protective Equipment

Eye/Type:	Dry towel, Approved safety goggles or glasses
Respiratory/Type:	None required with normal use.
Gloves/Type:	Rubber/Latex gloves
Clothing/Type:	Rubber/Latex/Plastic apron
Footwear/Type:	Waterproof footwear
Ventilation Requirements:	General mechanical sufficient

**SECTION 10 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Yellowish clear solution
Odor:	Perfume Odor
pH:	8.8–9.2 (when manufactured)
Gravity@25°C	NAV
Solubility in water:	Soluble
Pressurized Container	No
Type Container	Paper Carton

**SECTION 11 – REACTIVITY DATA**

Stability:	Stable
Incompatibility:	Oxidizing Materials, Acids, Excessive heat or flame.
Hazardous Decomposition:	NAV
Hazardous Polymerization:	Will not occur

## PREJUME TG Hair Waving Lotion 1

**SECTION 12 – TOXICOLOGICAL INFORMATION**

Sensitization to Product:	NAV
Carcinogenicity:	Ingredients are not listed as carcinogens.
Teratogenicity:	NAV
Mutagenicity:	NAV
Reproductive Effect:	NAV

**SECTION 13 – INFLUENCE ON ENVIRONMENT**

Dissolubility:	NAV
Accumulation:	NAV
Detoxification:	NAV

**SECTION 14 – DISPOSAL INFORMATION**

Waste Disposal:	Dispose of according to National, Provincial and Local regulations.
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**SECTION 15 – TRANSPORT INFORMATION**

IATA (Air):	NAV
IMDG (Sea):	NAV

**SECTION 16 – OTHER INFORMATION**

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Prepared By:	Central Research Institute, Milbon Co.,Ltd.

**THIS INFORMATION AS MENTIONED HEREINABOVE IS GIVEN IN GOOD FAITH AND IS BASED ON TECHNICAL INFORMATION WHICH WE BELIEVE TO BE RELIABLE AND ACCURATE. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE.**

Abbreviations:	OSHA	Occupational Safety and Health Administration
	PEL	Permissible Exposure Limit
	TWA	Time Weighted Average
	STEL	Short Term Exposure Limit
	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Value
	NIOSH	National Institute for Occupational Safety and Health
	REL	Recommended Exposure Limit
	LD <sup>50</sup>	Lethal dose 50 percent kill
	NAV	Not Available
	NAP	Not Applicable

–Nothing Follows–