



**SAFETY DATA SHEET**

**SECTION 1. Identification of the substance / mixture and of the company / undertaking**

Product Identifier

Code: 005621

Product Name: SOPHISTONE PERMANENT (All shades)

Chemical Family: Mixture

Intended use: hair color, cosmetics

Recommendations on use: Personal care product to be mixed with the oxidation product and applied to hair for color.

Restrictions on use: For external use only. Use only as directed with instructions.

Manufacturer /supplier

Manufacturer

Name: MILBON CO., LTD.

Address: 2-3-35, Miyakojima-ku, Zengenji-cho, Osaka-city, Osaka, Japan

Distributor

Name: MILBON USA, Inc.

Full address: 550 Fifth Avenue, 9th Floor, New York, NY 10036

Country: USA

Tel: (800) 431-8930

**SECTION 2. Hazards identification**

Classification of the substance or mixture

Hazard classification and indication:

Acute toxicity (oral) - category 4

Skin corrosion / irritation - category 2

Serious eye damage - category 1

Skin sensitization - category 1

Label elements

Hazard pictograms:



Signal wards: DANGER



Hazard statements:

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H317 May cause an allergic skin reaction

Precautionary statements:

- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P280 Wear protective gloves/ protective clothing / eye protection / face protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P305, 351, 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

General Precautionary Statements:

Keep out of reach of children. Read label/directions before use. Keep from heat and moisture. Do not use metal utensils. Hair color products may cause allergic reactions, which in rare cases can be severe. Perform a skin allergy test 48 hours before each application.

SECTION 3. Composition / Information on ingredients

Substance/ Mixture: Mixture

Only hazardous constituents associated with the product are listed below

INCI NAME	CAS number	%
AMMONIUM HYDROXIDE	1336-21-6	< 5%
RESORCINOL	108-46-3	< 2%
p-AMINOPHENOL	123-30-8	< 1%
m-AMINOPHENOL	591-27-5	< 1%
2,4-DIAMINOPHENOXYETHANOL HCL	66422-95-5	< 1%
TOLUENE-2,5-DIAMINE SULFATE	615-50-9	< 4%
1-NAPHTHOL	90-15-3	< 1%

Ingredient List;

WATER/AQUA/EAU, CETEARYL ALCOHOL, PARAFFIN, PEG-20, DICETYL PHOSPHATE, CETETH-10 PHOSPHATE, STEARETH-100, STEARETH-21, STEARETH-200, STEARYL ALCOHOL, CETYL ALCOHOL, LANOLIN ALCOHOL, TOCOPHEROL, OLETH-5 PHOSPHATE, DIOLEYL PHOSPHATE, XANTHAN GUM, ASCORBIC ACID, SODIUM SULFITE, DISODIUM EDTA, SODIUM CHLORIDE,



## SODIUM POLYACRYLATE

May contain;

TOLUENE-2,5-DIAMINE SULFATE, RESORCINOL, 1-HYDROXYETHYL 4,5-DIAMINO PYRAZOLE SULFATE, 2-METHYLRESORCINOL, p-AMINOPHENOL, 4-AMINO-M-CRESOL, m-AMINOPHENOL, 2,4-DIAMINOPHENOXYETHANOL HCL, HYDROXYETHYL-3,4-METHYLENEDIOXYANILINE HCL, 2-AMINO-4-HYDROXYETHYLAMINOANISOLE SULFATE, 2-AMINO-6-CHLORO-4-NITROPHENOL, 4-AMINO-2-HYDROXYTOLUENE, 1-NAPHTHOL, 2-METHYL-5-HYDROXYETHYLAMINOPHENOL, HC RED NO. 3, BASIC RED 51, BASIC ORANGE 31

### SECTION 4. First aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for several minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Wash with plenty of water. If the skin irritation or rash occurs, get medical advice / attention.

**INGESTION:** Rinse mouth. Get medical advice/attention. Do not induce vomiting unless explicitly authorized by a doctor.

**INHALATION:** Remove victim to fresh air. Get medical advice/attention immediately if the person feels unwell.

### SECTION 5. Firefighting measures

Flash point: Not available.

Extinguishing media: Use chemical foam, dry chemical, carbon dioxide, water.

Firefighting Instructions: Contact emergency personnel. Use self-contained breathing apparatus and full protective gear. Hazardous decomposition products may be released.

### SECTION 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment to prevent any contamination of skin, eyes and personal clothing.

#### Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for disposal. Scrub the area with detergent.

#### Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### SECTION 7. Handling and storage

#### Precautions for safe handling

Ensure good ventilation at the workplace. Avoid skin and eye contact. External use only. This product is only for professionals.

#### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store in cool and dry areas. Discard any unused mixture with developer, since the



container may break. Protect from heat and sunlight; store in places far from rain and humidity; never store outdoors. Store separately from other dangerous and incompatible substances.

SECTION 8. Exposure controls/personal protection

Control parameters

Exposure Guidelines

INCI NAME	CAS No	Exposure Limit
AMMONIUM HYDROXIDE	1336-21-6	ACGIH TLV TWA: 25ppm STEL: 35ppm
RESORCINOL	108-46-3	ACGIH TLV TWA: 10ppm STEL: 20ppm

Exposure controls

This is a cosmetic product that is safe for consumer and cosmetologists when used as directed with instructions.

HAND PROTECTION: Wear appropriate gloves. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION: Avoid prolonged contact with skin.

EYE PROTECTION: None required for product use. Contact with eyes should be avoided.

RESPIRATORY PROTECTION: Respiratory protection is not required for product use.

SECTION 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Cream
Color	White, Yellow, Red
Odor	Characteristic
pH	9.0 – 11.0
Viscosity	Not available
Melting point / Freezing point	Not available
Initial boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available



Solubility in water	Partially soluble
Partition coefficient:	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Explosive properties	Not available
Oxidizing properties	Not available

**SECTION 10. Stability and reactivity**

Reactivity: There are no particular risks of reaction with other substances in normal conditions of use.

Chemical stability: The product is stable under normal conditions.

Possibility of hazardous reactions: Information not available

Conditions to avoid: Heat and sunlight.

Incompatible materials: Information not available

Hazardous decomposition products: Information not available

**SECTION 11. Toxicological information**

This is a cosmetic product that is safe for consumer and cosmetologists when used as directed with instructions.

Assessed as safe with Skin Patch Test. This product contains ingredients which may cause skin irritation and/or allergic reactions on certain individuals and a preliminary skin test should first be made.

Information on toxicological effects

Information on likely routes of exposure.

SKIN: Causes skin irritation. May cause an allergic skin reaction.

EYE: Causes serious eye damage.

INGESTION: Harmful if swallowed.

INHALATION: Prolonged inhalation may be harmful.

**ACUTE TOXICITY:**

Products;

LD<sub>50</sub> (Oral) of the mixture: Category 4

LD<sub>50</sub> (Dermal) of the mixture: Not classified

LC<sub>50</sub> (Inhalation) of the mixture: Not classified

Component information;

INCI name	CAS-No	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
AMMONIUM HYDROXIDE	1336-21-6	350mg/ kg		



RESORCINOL	108-46-3	301mg/kg	3,360mg/kg	
p-AMINOPHENOL	123-30-8	671mg/kg	>8,000mg/kg	
m-AMINOPHENOL	591-27-5	693mg/kg		
2,4-DIAMINOPHENOXYETHANOL HCL	66422-95-5	>2,000mg/kg		
TOLUENE-2,5-DIAMINE SULFATE	615-50-9	98mg/kg		
1-NAPHTHOL	90-15-3			>0.097mg/L

SKIN CORROSION / IRRITATION: Category 2/ Cause skin irritation.

SERIOUS EYE DAMAGE / IRRITATION: Category 1/ Causes serious eye damage.

RESPIRATORY OR SKIN SENSITIZATION: Category 1/Sensitizing for the skin.

GERM CELL MUTAGENICITY: Not Classified

CARCINOGENICITY: Not Classified

REPRODUCTIVE TOXICITY: Not Classified

STOT - SINGLE EXPOSURE: Not Classified

STOT - REPEATED EXPOSURE: Not Classified

ASPIRATION HAZARD: Not Classified

**SECTION 12. Ecological information**

This product itself has not been tested. The following results have been associated with some of its ingredients.

Toxicity

INCI NAME	Acute and prolonged toxicity to fish	Acute toxicity to aquatic invertebrates	Toxicity to aquatic plants
AMMONIUM HYDROXIDE	LC <sub>50</sub> = 8.2mg/L, 96hr	LC <sub>50</sub> =0.66mg/L, 48hr	
RESORCINOL		LC <sub>50</sub> =32.7mg/L, 96hr	LD <sub>50</sub> =60mg/L
m-AMINOPHENOL	LC <sub>50</sub> =120mg / L, 96hr	EC <sub>50</sub> = 0.447 mg/L, 48hr	
p-AMINOPHENOL			EC <sub>50</sub> =0.10mg/L, 72hr
1-NAPHTHOL		EC <sub>50</sub> = 0.73 mg/L, 48hr	

**SECTION 13. Disposal considerations**

Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**SECTION 14. Transport information**

ADR / RID: Not classified dangerous goods

MDG: Not classified dangerous goods



IATA: Not classified dangerous goods

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA (Toxic substance control act): Cosmetic products are not regulated under TSCA.

California Proposition 65: This product is not subject to warning labeling under California Proposition 65.

SECTION 16. Other information

Date of Last Revision: 10 December, 2020

Revision Number: 1st

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-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  
Manufacturer's Name: Milbon Co., Ltd.  
Manufacturer'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 SCALP SUPPORT OIL  
 Product Use: Cosmetics (Scalp Treatment)  
 Chemical Family: Mixture  
 Manufacturer's Name: Milbon Co., Ltd.  
 Manufacturer'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: SOPHISTONE Color Balancing Blue Shampoo  
 Product Use: Cosmetics (Shampoo)  
 Chemical Family: Mixture  
 Manufacturer's Name: Milbon Co., Ltd.  
 Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### **SECTION 2 – INGREDIENTS**

WATER / AQUA, SODIUM C14-16 OLEFIN SULFONATE, LAURAMIDOPROPYL BETAINE, SODIUM LAURETH-6 CARBOXYLATE, COCAMIDE METHYL MEA, SODIUM LAUROYL SILK AMINO ACIDS, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, PVP, POLYQUATERNIUM-10, POLYQUATERNIUM-52, PEG-120 METHYL GLUCOSE DIOLEATE, LAURETH-16, PROPYLENE GLYCOL LAURATE, LAURETH-6 CARBOXYLIC ACID, DIPOTASSIUM GLYCYRRHIZATE, LACTIC ACID, PEG-4, GLYCERIN, BENZYL ALCOHOL, POTASSIUM HYDROXIDE, DISODIUM EDTA, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE, SODIUM BENZOATE, MAGNESIUM CHLORIDE, SODIUM CHLORIDE, MAGNESIUM NITRATE, DIPROPYLENE GLYCOL, BHT, PHENOXYETHANOL, FRAGRANCE / PARFUM, BENZYL BENZOATE, CI 60730 / D&C Violet No. 2, CI 42090 / FD&C Blue No. 1

### **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)	<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. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.  
 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: Approved safety goggles or glasses  
Respiratory/Type: None required with normal use.  
Gloves/Type: Rubber/Latex/Nylon gloves  
Clothing/Type: Rubber/Nylon apron  
Footwear/Type: None required with normal use.  
Ventilation Requirements: General mechanical ventilator

### SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Blue Purple Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.0 - 6.0 (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.

## **SECTION 15 - TRANSPORT INFORMATION**

IATA: Not classified as dangerous goods  
IMDG: 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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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: SOPHISTONE Color Balancing Copper Shampoo  
 Product Use: Cosmetics (Shampoo)  
 Chemical Family: Mixture  
 Manufacturer's Name: Milbon Co., Ltd.  
 Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### SECTION 2 - INGREDIENTS

WATER / AQUA, SODIUM C14-16 OLEFIN SULFONATE, LAURAMIDOPROPYL BETAINE, SODIUM LAURETH-6 CARBOXYLATE, COCAMIDE METHYL MEA, SODIUM LAUROYL SILK AMINO ACIDS, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, PVP, POLYQUATERNIUM-10, POLYQUATERNIUM-52, PEG-120 METHYL GLUCOSE DIOLEATE, LAURETH-16, PROPYLENE GLYCOL LAURATE, LAURETH-6 CARBOXYLIC ACID, DIPOTASSIUM GLYCYRRHIZATE, LACTIC ACID, PEG-4, GLYCERIN, BENZYL ALCOHOL, POTASSIUM HYDROXIDE, DISODIUM EDTA, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE, SODIUM BENZOATE, MAGNESIUM CHLORIDE, SODIUM CHLORIDE, MAGNESIUM NITRATE, DIPROPYLENE GLYCOL, BHT, PHENOXYETHANOL, FRAGRANCE / PARFUM, BENZYL BENZOATE, CI 60730 / D&C Violet No. 2, CI 15510 / D&C Orange No. 4

### SECTION 3 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV) (TWA)	NIOSH (REL) (TWA)	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)	<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. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.  
 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: Approved safety goggles or glasses  
Respiratory/Type: None required with normal use.  
Gloves/Type: Rubber/Latex/Nylon gloves  
Clothing/Type: Rubber/Nylon apron  
Footwear/Type: None required with normal use.  
Ventilation Requirements: General mechanical ventilator

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

- Appearance: Brown Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.0 - 6.0 (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.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA: Not classified as dangerous goods  
IMDG: 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.

**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: SOPHISTONE Color Balancing Purple Shampoo  
 Product Use: Cosmetics (Shampoo)  
 Chemical Family: Mixture  
 Manufacturer's Name: Milbon Co., Ltd.  
 Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

### SECTION 2 - INGREDIENTS

WATER / AQUA, SODIUM C14-16 OLEFIN SULFONATE, LAURAMIDOPROPYL BETAINE, SODIUM LAURETH-6 CARBOXYLATE, COCAMIDE METHYL MEA, SODIUM LAUROYL SILK AMINO ACIDS, ISOSTEAROYL HYDROLYZED SILK, ISOSTEARIC ACID, PVP, POLYQUATERNIUM-10, POLYQUATERNIUM-52, PEG-120 METHYL GLUCOSE DIOLEATE, LAURETH-16, PROPYLENE GLYCOL LAURATE, LAURETH-6 CARBOXYLIC ACID, DIPOTASSIUM GLYCYRRHIZATE, LACTIC ACID, PEG-4, GLYCERIN, BENZYL ALCOHOL, POTASSIUM HYDROXIDE, DISODIUM EDTA, METHYLISOTHIAZOLINONE, METHYLCHLOROISOTHIAZOLINONE, SODIUM BENZOATE, MAGNESIUM CHLORIDE, SODIUM CHLORIDE, MAGNESIUM NITRATE, DIPROPYLENE GLYCOL, BHT, PHENOXYETHANOL, FRAGRANCE / PARFUM, BENZYL BENZOATE, CI 60730 / D&C Violet No. 2

### SECTION 3 - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV) (TWA)	NIOSH (REL) (TWA)	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)	<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. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.  
 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: Approved safety goggles or glasses  
Respiratory/Type: None required with normal use.  
Gloves/Type: Rubber/Latex/Nylon gloves  
Clothing/Type: Rubber/Nylon apron  
Footwear/Type: None required with normal use.  
Ventilation Requirements: General mechanical ventilator

### SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Purple Liquid  
Odor: Perfume Odor  
Viscosity: Not available  
pH: 4.0 - 6.0 (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.

### **SECTION 15 - TRANSPORT INFORMATION**

IATA: Not classified as dangerous goods  
IMDG: 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: SOPHISTONE Cream Developer 10vol., 20vol.  
 Product Use: Cosmetics (Hair Color Developer Cream)  
 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/AQUA, HYDROGEN PEROXIDE, STEARYL ALCOHOL, CETYL ALCOHOL, CETEARETH-25, PARAFFIN, MYRISTYL ALCOHOL, SODIUM LAURETH SULFATE, ETIDRONIC ACID, SALICYLIC ACID, PHOSPHORIC ACID, TRISODIUM EDTA

**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)	< 6%

**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, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 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: 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 Cream  
Odor: Characteristic odor  
Viscosity: Not available  
pH: 2.0-4.0 (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: 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 :	Not classified as dangerous goods
IMDG:	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: SOPHISTONE Cream Developer 30vol., 40vol.  
 Product Use: Cosmetics (Hair Color Developer Cream)  
 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/AQUA, HYDROGEN PEROXIDE, STEARYL ALCOHOL, CETYL ALCOHOL, CETEARETH-25, PARAFFIN, MYRISTYL ALCOHOL, SODIUM LAURETH SULFATE, ETIDRONIC ACID, SALICYLIC ACID, PHOSPHORIC ACID, TRISODIUM EDTA

**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)	< 12%

**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, blister or other skin abnormalities, obtain Doctor's advice immediately.  
 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: 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 Cream  
Odor: Characteristic odor  
Viscosity: Not available  
pH: 2.0-4.0 (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: 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.

**SECTION 15 - TRANSPORT INFORMATION**

IATA: UN 2984, Hydrogen Peroxide, Aqueous Solution, Class 5.1, PGIII, Ltd. Qty.  
 IMDG: UN 2984, Hydrogen Peroxide, Aqueous Solution, Class 5.1, PGIII, Ltd. Qty.

**SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 28 June, 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: SOPHISTONE DEMI 9N, 8N, 6N, 5N, 3N, 9B, 9BV, 7BV, 8M, 6M, 9G, 7G, 6G, 5G, 3G, 8GC, 6GC, 4GC, 9GBE, 7GBE, 6GBE, 9CR, 6CR, 3CR, 6R, 3R, 9V, 8V, 7V, 3V, 9BE, 7BE, 6BE, 4BE, 3BE, 9GA, 6GA, Blue intensifier, Yellow intensifier, Red intensifier, Violet intensifier, CLEAR

Product Use: Cosmetics (Hair Color)

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**

PROPYLENE GLYCOL, ISOPROPYL ALCOHOL, SODIUM C14-16 OLEFIN SULFONATE, PPG-2 BUTYL ETHER, C12-14 PARETH-3, PPG-2 HYDROXYETHYL COCO/ISOSTEARAMIDE, WATER/AQUA, LAURETH-3, PPG-5-CETETH-10 PHOSPHATE, MYRISTYL ALCOHOL, CETYL ALCOHOL, OLEYL ALCOHOL, ASCORBIC ACID, LAURYL ALCOHOL, COCO-BETAIN, SODIUM SULFITE, SODIUM CHLORIDE, ETHANOLAMINE, PENTASODIUM PENTETATE, FRAGRANCE/PARFUM, TRISODIUM PHOSPHATE, SODIUM CITRATE, BHT, LINALOOL

May Contain: 2,4-DIAMINOPHENOXYETHANOL HCL, 4-AMINO-2-HYDROXYTOLUENE, m-AMINOPHENOL, N,N-BIS(2-HYDROXYETHYL)-P-PHENYLENEDIAMINE SULFATE, p-AMINOPHENOL, p-PHENYLENEDIAMINE, TOLUENE-2,5-DIAMINE SULFATE, RESORCINOL, 2-METHYLRESORCINOL, 3-NITRO-P-HYDROXYETHYLAMINOPHENOL, 2-AMINO-6-CHLORO-4-NITROPHENOL, 4-CHLORORESORCINOL, HC RED NO. 3, HC YELLOW NO. 2, PHENYL METHYL PYRAZOLONE

### **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)	< 10%
Ethanolamine	141-43-5	3 ppm	6 ppm (STEL)	6 ppm (STEL)	2100 mg/kg (Rat-Oral)	< 0.5%
p-Phenylene Diamine	106-50-3	0.1mg/m3	0.1mg/m3	0.1mg/m3		< 3%
Resorcinol	108-46-3		10ppm	10ppm		< 1%

### **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. This product contains ingredients which may cause skin irritation on certain individuals and a preliminary skin test should first be made.

Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.

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.

**Caution:**

This product contains ingredients which may cause skin irritation on certain individuals and a preliminary skin test should first be made. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.

“SOPHISTONE DEMI” is intended to use with hair dye developer “SOPHISTONE Processing Lotion 6.6vol.”. Do not use separately. Follow the instruction of MILBON.

### **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 AND EXPLOSION HAZARD DATA**

**Flash Point (°C), Method:** 36.5 °C (Closed cup)  
**Sustained Combustibility Test:** Not sustained combustibility at 60.5 and 75 °C  
**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.

### **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: Clear, yellow or brown liquid  
Odor: Perfume Odor, Alcoholic odor  
Viscosity: Not available  
pH: 8.0-10.0 (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: Oxidizing Materials, Acids, Excessive heat or flame  
Hazardous Decomposition: Will not occur  
Hazardous Polymerization: Will not occur

### SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product: This product contains ingredients which may cause skin irritation and/or allergic reactions on certain individuals and a preliminary skin test should first be made.  
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 : Not classified as dangerous goods  
IMDG: Not classified as dangerous goods

### SECTION 16 - OTHER INFORMATION

Date of Last Revision: 15 March 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: SOPHISTONE Elite Clay  
 Product Use: Cosmetics (Hair bleach)  
 Chemical Family: Mixture  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 550 Fifth Avenue, 9th Floor, New York, NY 10036

**SECTION 2 - INGREDIENTS**

KAOLIN, SODIUM SILICATE, AMMONIUM PERSULFATE, POTASSIUM PERSULFATE, SODIUM METASILICATE, SODIUM PERSULFATE, MAGNESIUM STEARATE, MINERAL OIL, DISODIUM EDTA, CYAMOPSIS TETRAGONOLOBA (GUAR) GUM, POLYPHOSPHORYLCHOLINE GLYCOL ACRYLATE, CARBOMER

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
SODIUM SILICATE	1344-09-8	-	-	-	3400 mg/ kg (Rat-Oral)	< 25%
AMMONIUM PEROXYDISULPHATE	7727-54-0	-	0.1 mg/m <sup>3</sup> (TWA)	-	272 mg/kg (Rat-Oral)	< 25%
DIPOTASSIUM PEROXODISULPHATE	7727-21-1	-	0.1 mg/m <sup>3</sup> (TWA)	-	1130 mg/kg (Rat-Oral)	< 10%
DISODIUM METASILICATE	6834-92-0	-	-	-	1152 mg/kg	< 5%
MINERAL OIL	8042-47-5	-	-	-	-	< 5%
SODIUM PERSULFATE	7775-27-1	-	0.1 mg/m <sup>3</sup> (TWA)	-	895 mg/kg	< 5%
TETRASODIUM EDTA	64-02-8	-	-	-	1780 mg/kg (Oral)	< 5%
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 an allergic skin reaction. Will 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: Harmful if swallowed. May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.



Inhalation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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

Skin Contact: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately.

Eye Contact: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention immediately.

Ingestion: Have the subject drink as much water as possible. Get medical advice/attention immediately. Do not induce vomiting unless explicitly authorized by a doctor.

Inhalation: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Flash Point (°C), Method: Not available

Auto Ignition Temp. (°C): Not available

Extinguishing Media: The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### **HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE:**

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### **GENERAL INFORMATION:**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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

Spill/Leak Procedure: If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.



Methods for Cleaning up     Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be use. Contaminated material should be disposed of in compliance.

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

Handling Procedures:     Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

Storage Requirements:     Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials.

Storage Conditions:     Store in cool (below 30 °C) and dry areas. Avoid contamination and avoid the presence of reducing agents like lotions and permanent waves. Discard any unused mixture with developer or bleaching lotions, since the container may break. AVOID humid organic material as paper towel, wood, clothes, etc. which could induce spontaneous combustion. Protect from heat and sunlight; store in places far from rain and humidity; never store outdoors. Store separately from other dangerous and incompatible substances.

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

### Personal Protective Equipment

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice.

EYE PROTECTION:     Wear a hood visor or protective visor combined with airtight goggles.

HAND PROTECTION:     In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves. Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

SKIN PROTECTION:     Wear category II professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### RESPIRATORY PROTECTION:

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.



**ENVIRONMENTAL EXPOSURE CONTROLS:**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Powder
Odor:	Characteristic odor
Viscosity:	Not available
pH:	9.7-10.7 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Partially soluble
Pressurized Container	No
Type Container	Plastic Cup / Sachet

**SECTION 11 - REACTIVITY DATA**

Stability:	Stable in normal conditions of use and storage. The powders are potentially explosive when mixed with air.
Incompatibility:	Reducing Materials, Oxidizing Materials, Excessive heat or flame, Acids, Water.
Hazardous Decomposition:	Contaminated product will generate oxygen gas and ammonia. Excessive heat will urge to generate oxygen gas and ammonia.
Hazardous Polymerization:	Will not occur.

**SECTION 12 - TOXICOLOGICAL INFORMATION**

Sensitization to Product:	Sensitizing for the skin. Sensitizing for the respiratory system.
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:	Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.
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**CONTAMINATED PACKAGING:**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.



### **SECTION 15 - TRANSPORT INFORMATION**

IATA (Air): UN1479, Oxidizing Solid, N.O.S. Mixture, Class 5.1, PG III, Ltd. Qty.  
IMDG (Sea): UN1479, Oxidizing Solid, N.O.S. Mixture, Class 5.1, PG III, Ltd. Qty.

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

Date of Last Revision: 28 June, 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: SOPHISTONE Elite Powder  
 Product Use: Cosmetics (Hair bleach)  
 Chemical Family: Mixture  
 Distributor's Name: MILBON USA, Inc.  
 Distributor's Address: 550 Fifth Avenue, 9th Floor, New York, NY 10036

**SECTION 2 - INGREDIENTS**

SODIUM SILICATE, AMMONIUM PERSULFATE, POTASSIUM PERSULFATE, SODIUM STEARATE, MAGNESIUM CARBONATE, TETRASODIUM EDTA, SODIUM LAURYL SULFATE, CARBOMER, CYAMOPSIS TETRAGONOLOBA (GUAR) GUM, CYCLODEXTRIN, DIMETHICONE, POLYPHOSPHORYLCHOLINE GLYCOL ACRYLATE, ULTRAMARINES

**SECTION 3 - HAZARDOUS INGREDIENTS**

CHEMICAL NAME	CAS No.	OSHA (PEL)	ACGIH (TLV)	NIOSH (REL)	LD <sup>50</sup>	Maximum Composition
SODIUM SILICATE	1344-09-8	-	-	-	3400 mg/ kg (Rat-Oral)	< 75%
AMMONIUM PEROXYDISULPHATE	7727-54-0	-	0.1 mg/m <sup>3</sup> (TWA)	-	272 mg/kg (Rat-Oral)	< 25%
DIPOTASSIUM PEROXODISULPHATE	7727-21-1	-	0.1 mg/m <sup>3</sup> (TWA)	-	1130 mg/kg (Rat-Oral)	< 20%
SODIUM LAURYL SULFATE,	85586-07-8	-	-	-	1800 mg/kg (Rat-Oral)	< 3%
TETRASODIUM EDTA	64-02-8	-	-	-	1780 mg/kg (Oral)	< 3%
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 an allergic skin reaction. Will 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: Harmful if swallowed. May cause irritation in mouth, chest and stomach resulting in vomiting and shortness of breath.

Inhalation: May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.



## SECTION 5 - FIRST AID MEASURES

- Skin Contact:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately.
- Eye Contact:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention immediately.
- Ingestion:** Have the subject drink as much water as possible. Get medical advice/attention immediately. Do not induce vomiting unless explicitly authorized by a doctor.
- Inhalation:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

## SECTION 6 - FIRE FIGHTING MEASURES

- Flash Point (°C), Method:** Not available
- Auto Ignition Temp. (°C):** Not available
- Extinguishing Media:** The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE:

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

### GENERAL INFORMATION:

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 7 - ACCIDENTAL RELEASE MEASURE

- Spill/Leak Procedure:** If there are no contraindications, spray powder with water to prevent the formation of dust.  
Wear suitable protective equipment to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.
- Methods for Cleaning up** Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the



container to be use. Contaminated material should be disposed of in compliance.

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

**Handling Procedures:** Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapors or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**Storage Requirements:** Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials.

**Storage Conditions:** Store in cool (below 30 °C) and dry areas. Avoid contamination and avoid the presence of reducing agents like lotions and permanent waves. Discard any unused mixture with developer or bleaching lotions, since the container may break. AVOID humid organic material as paper towel, wood, clothes, etc. which could induce spontaneous combustion. Protect from heat and sunlight; store in places far from rain and humidity; never store outdoors. Store separately from other dangerous and incompatible substances.

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

### **Personal Protective Equipment**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. When choosing personal protective equipment, ask your chemical substance supplier for advice.

**EYE PROTECTION:** Wear a hood visor or protective visor combined with airtight goggles.

**HAND PROTECTION:** In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves. Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

**SKIN PROTECTION:** Wear category II professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

### **RESPIRATORY PROTECTION:**

Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.

### **ENVIRONMENTAL EXPOSURE CONTROLS:**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.





## SECTION 10 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Odor:	Characteristic odor
Viscosity:	Not available
pH:	9.7-10.7 (when manufactured)
Gravity@25 °C:	Not available
Solubility in water:	Partially soluble
Pressurized Container	No
Type Container	Plastic Cup / Sachet

## SECTION 11 - REACTIVITY DATA

Stability:	Stable in normal conditions of use and storage. The powders are potentially explosive when mixed with air.
Incompatibility:	Reducing Materials, Oxidizing Materials, Excessive heat or flame, Acids, Water.
Hazardous Decomposition:	Contaminated product will generate oxygen gas and ammonia. Excessive heat will urge to generate oxygen gas and ammonia.
Hazardous Polymerization:	Will not occur.

## SECTION 12 - TOXICOLOGICAL INFORMATION

Sensitization to Product:	Sensitizing for the skin. Sensitizing for the respiratory system.
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:	Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations.
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### CONTAMINATED PACKAGING:

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 15 - TRANSPORT INFORMATION

IATA (Air):	UN1479, Oxidizing Solid, N.O.S. Mixture, Class 5.1, PG III, Ltd. Qty.
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IMDG (Sea): UN1479, Oxidizing Solid, N.O.S. Mixture, Class 5.1, PG III, Ltd. Qty.

## **SECTION 16 - OTHER INFORMATION**

Date of Last Revision: 28 June, 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: SOPHISTONE Processing Lotion 6.6vol.  
 Product Use: Cosmetics (Hair Color Developer)  
 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/AQUA, HYDROGEN PEROXIDE, PHOSPHORIC ACID, PENTASODIUM PENTETATE

**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%
PHOSPHORIC ACID	7664-38-2	1 mg/m3	3 mg/m3 (STEL)	3 mg/m3 (STEL)	1530 mg/kg (Rat-Oral)	< 1%

**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. This product contains ingredients which may cause skin irritation on certain individuals and a preliminary skin test should first be made.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.  
 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**

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. This product contains ingredients which may cause skin irritation on certain individuals and a preliminary skin test should first be made.  
 Eye Contact: May cause redness, burning, stinging, possible serious injury or blindness if left untreated. This product must not be used for dyeing the eyelashes or eyebrows; to do so may cause blindness.  
 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 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: Clear liquid  
Odor: Characteristic odor  
Viscosity: Not available  
pH: 2.0  
Gravity@25 °C: Not available  
Solubility in water: Soluble  
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



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 : Not classified as dangerous goods  
IMDG: 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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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-