



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 ⁵⁰ | 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, CO₂

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

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|-----------------|---|
| 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. |

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 ⁵⁰ | 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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
 LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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: 4.2-5.2 (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. |
|-----------------|---|

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 ⁵⁰ | 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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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
 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: +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 ⁵⁰ | Maximum Composition |
|---------------------|-----------|----------------------|-------------------------------|----------------------|---------------------------|---------------------|
| Potassium Hydroxide | 1310-58-3 | | 2 mg/m ³ | 2 mg/m ³ | | < 0.17% |
| Glycerin | 56-81-5 | 15 mg/m ³ | 10 mg/m ³ (TWA) | 10 mg/m ³ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 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: +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 ⁵⁰ | Maximum Composition |
|---------------------|-----------|----------------------|-------------------------------|----------------------|---------------------------|---------------------|
| Potassium Hydroxide | 1310-58-3 | | 2 mg/m ³ | 2 mg/m ³ | | < 0.17% |
| Glycerin | 56-81-5 | 15 mg/m ³ | 10 mg/m ³ (TWA) | 10 mg/m ³ | 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, CO₂

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.

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
 LD⁵⁰ 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

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SECTION 3 - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS No. | OSHA (PEL) | ACGIH (TLV) | NIOSH (REL) | LD ⁵⁰ | Maximum Composition |
|---------------------|-----------|----------------------|----------------------------|----------------------|------------------------|---------------------|
| Potassium Hydroxide | 1310-58-3 | | 2 mg/m ³ | 2 mg/m ³ | | < 0.17% |
| Glycerin | 56-81-5 | 15 mg/m ³ | 10 mg/m ³ (TWA) | 10 mg/m ³ | 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.
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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, CO₂

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.

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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 NIOSH National Institute for Occupational Safety and Health
 REL Recommended Exposure Limit
 LD⁵⁰ 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
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: +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, SODIUM OLIVAMPHOACETATE, 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
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: +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, CO₂

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.

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: 1st 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
 LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
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: +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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 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: +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 ⁵⁰ | Maximum Composition |
|---------------|---------|----------------------|----------------------------|----------------------|------------------------|---------------------|
| Glycerin Mist | 56-81-5 | 15 mg/m ³ | 10 mg/m ³ (TWA) | 10 mg/m ³ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | Lethal dose 50 percent kill |

-Nothing Follows-





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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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) (TWA) | NIOSH (REL) (TWA) | LD ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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, CAMEL

SECTION 3 - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS No. | OSHA (PEL) | ACGIH (TLV) | NIOSH (REL) | LD ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 st 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 ⁵⁰ | Lethal dose 50 percent kill |

-Nothing Follows-



MATERIAL SAFETY DATA SHEET

SECTION 1 - MANUFACTURE AND PRODUCT IDENTIFICATION

Product Name: MILBON MOISTURE NO.3
 Product Use: Cosmetics (Hair Treatment)
 Chemical Family: Mixture
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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, CYCLOPENTASILOXANE, 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, CAMEL

SECTION 3 - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS No. | OSHA (PEL) | ACGIH (TLV) | NIOSH (REL) | LD ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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 ⁵⁰ | 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, CO₂

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.

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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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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.

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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
LD⁵⁰ 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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 ³ (TWA) | 10 mg/m ³ (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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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 ³ | - | 6 mg/m ³ | - | < 0.6% |
| Kaolin | 1332-58-7 | 15 mg/m ³ | 10 mg/m ³ (TWA) | - | - | < 0.6% |
| Phosphoric Acid | 7664-38-2 | 1 mg/m ³ | 3 mg/m ³ (STEL) | 3 mg/m ³ (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, CO₂

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: 6.5-6.9 (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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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 ³ | 10 mg/m ³ (TWA) | - | - | < 0.6% |
| Phosphoric Acid | 7664-38-2 | 1 mg/m ³ | 3 mg/m ³ (STEL) | 3 mg/m ³ (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, CO₂

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.

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
 LD⁵⁰ 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 ⁵⁰ | Maximum Composition |
|---------------------|-----------|------------|---------------------|---------------------|------------------|---------------------|
| Potassium Hydroxide | 1310-58-3 | | 2 mg/m ³ | 2 mg/m ³ | | ≤ 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, CO₂

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.

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 st 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 ⁵⁰ | 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
 Product Use: Cosmetics (Hair Treatment)
 Chemical Family: Mixture
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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, CYCLOPENTASILOXANE, CETYL ALCOHOL, STEARYL ALCOHOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, AMODIMETHICONE, OLEA EUROPAEA (OLIVE) FRUIT OIL, ISOPROPYL ALCOHOL, PHENOXYETHANOL, FRAGRANCE, LIMNANTHES ALBA (MEADOWFOAM) SEED OIL, DICOCODIMONIUM CHLORIDE, TOCOPHEROL, ISOSTEARIC ACID, LACTIC ACID, HYDROXYETHYLCELLULOSE, ETHYLHEXYL METHOXYCINNAMATE, LAURYL BETAINE, ISOSTEAROYL HYDROLYZED SILK, BUTYLENE GLYCOL, CARBOXYMETHYLALANYL DISULFIDE KERATIN, AMINOMETHYL PROPANOL, POLY(TRIPEPTIDE-6)

SECTION 3 - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS No. | OSHA (PEL) | ACGIH (TLV) | NIOSH (REL) | LD ⁵⁰ | 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, CO₂

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.

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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 PEL Permissible Exposure Limit
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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
 LD⁵⁰ 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 ⁵⁰ | 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
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 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, CO₂

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.

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
LD⁵⁰ 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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.
 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, HYDROXYETHYLCELLULOSE, ISOPROPYL ALCOHOL, TREHALOSE, LACTIC ACID, PHENOXYETHANOL, FRAGRANCE, BEHENTRIMONIUM CHLORIDE, 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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 ³ | 2 mg/m ³ | 2 mg/m ³ | 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, CO₂

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 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. |
|-----------------|---|

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 ⁵⁰ | 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
Manufacturer's Name: Milbon Co., Ltd.
Manufacturer'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 ⁵⁰ | 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 ³ (TWA) | 10 mg/m ³ (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, CO₂

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.

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
LD⁵⁰ 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 ⁵⁰ | Maximum Composition |
|---------------------|-----------|------------|---------------------|---------------------|-----------------------|---------------------|
| Potassium Hydroxide | 1310-58-3 | | 2 mg/m ³ | 2 mg/m ³ | | < 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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.

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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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
LD⁵⁰ 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 st 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 ⁵⁰ | 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
 Product Use: Cosmetics (Hair Treatment)
 Chemical Family: Mixture
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

SECTION 2 - INGREDIENTS

WATER, CYCLOPENTASILOXANE, 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, DIMETHICONE, LACTIC ACID, ISOPROPYL ALCOHOL, TOCOPHEROL, ETHYLHEXYL METHOXYCINNAMATE, PHENOXYETHANOL, FRAGRANCE

SECTION 3 - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS No. | OSHA (PEL) | ACGIH (TLV) | NIOSH (REL) | LD ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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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| | PEL | Permissible Exposure Limit |
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| | STEL | Short Term Exposure Limit |
| | ACGIH | American Conference of Governmental Industrial Hygienists |
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| | REL | Recommended Exposure Limit |
| | LD ⁵⁰ | 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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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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, CO₂

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.

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: 1st 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
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 NIOSH National Institute for Occupational Safety and Health
 REL Recommended Exposure Limit
 LD⁵⁰ 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
Product Use: Cosmetics (Hair Treatment)
Chemical Family: Mixture
Manufacturer's Name: MILBON (THAILAND) CO., LTD.
Manufacturer's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

SECTION 2 - INGREDIENTS

WATER, CETYL ALCOHOL, CYCLOPENTASILOXANE, DIMETHICONE, 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: MILBON (THAILAND) CO., LTD.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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: 1st 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
 LD⁵⁰ 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
 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, CYCLOPENTASILOXANE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, STEARYL ALCOHOL, DIMETHICONE, 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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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
Manufacturer's Name: MILBON (THAILAND) CO., LTD.
Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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: 1st 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
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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
 LD⁵⁰ 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
Product Use: Cosmetics (Hair Treatment)
Chemical Family: Mixture
Manufacturer's Name: MILBON (THAILAND) CO., LTD.
Manufacturer's Address: 7/380 MOO 6, MABYANGPORN, PLUAKDAENG, RAYONG 21140, THAILAND

SECTION 2 - INGREDIENTS

WATER, CYCLOPENTASILOXANE, CETYL ALCOHOL, AMINOETHYLAMINOPROPYL DIMETHICONE, STEARTRIMONIUM CHLORIDE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, DIMETHICONE, 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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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| | | |
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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 ⁵⁰ | 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 ⁵⁰ | 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, CO₂

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.

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: 1st 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
 LD⁵⁰ 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
 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, CYCLOPENTASILOXANE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, DIMETHICONE, 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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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: 1st 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
LD⁵⁰ 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
 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, CYCLOPENTASILOXANE, CETYL ALCOHOL, STEARTRIMONIUM CHLORIDE, AMODIMETHICONE, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, DIMETHICONE, 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 ⁵⁰ | 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, CO₂

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: 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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

SECTION 2 - INGREDIENTS

WATER, SODIUM LAURETH SULFATE, SODIUM LAURETH-11 CARBOXYLATE, DIPROPYLENE GLYCOL, SODIUM COCOYL APPLE AMINO ACIDS, SODIUM COCOAMPHOACETATE, ISOSTEARAMIDOPROPYL BETAINE, 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 ⁵⁰ | 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 ³ | 2 mg/m ³ | 2 mg/m ³ | 500 mg/kg (Rabbit-Oral) | <0.1% |
| Butylated Hydroxy Toluene | 128-37-0 | - | 10 mg/m ³ (TWA) | 10 mg/m ³ (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, CO₂

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. |
|-----------------|---|

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
LD⁵⁰ 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
 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: +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 ⁵⁰ | 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 ³ | 2 mg/m ³ | 2 mg/m ³ | 500 mg/kg (Rabbit-Oral) | <0.1% |
| Butylated Hydroxy Toluene | 128-37-0 | — | 10 mg/m ³ (TWA) | 10 mg/m ³ (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, CO₂

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. |
|-----------------|---|

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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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 ³ | 2 mg/m ³ | 2 mg/m ³ | 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, CO₂

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. |
|-----------------|---|

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. |

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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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 GLYCYRRHIZATE, DISODIUM SUCCINOYL GLYCYRRHETINATE, 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 ⁵⁰ | 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 ³ | 2 mg/m ³ | 2 mg/m ³ | 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, CO₂

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.

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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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 ³ (TWA) | 10 mg/m ³ (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, CO₂

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. |
|-----------------|---|

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. |

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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer's Address: 2-3-35 Zengenji-cho, Miyakojima-ku, Osaka, 534-0015 Japan

SECTION 2 – INGREDIENTS

WATER, STEARYL ALCOHOL, CETYL ALCOHOL, DIMETHICONE, ALCOHOL, STEAROXYPROPYLTRIMONIUM CHLORIDE, DI-C12-18 ALKYL DIMONIUM CHLORIDE, PPG-3 CAPRYLYL ETHER, ISOSTEAROYL HYDROLYZED SILK, SQUALANE, HYDROLYZED SILK, POLYQUATERNIUM-61, ARGININE, POLIANTHES TUBEROSA POLYSACCHARIDE, CETYL-PG HYDROXYETHYL PALMITAMIDE, ISOSTEARIC ACID, HYDROXYETHYLCELLULOSE, PCA ETHYL COCOYL ARGINATE, DICOCODIMONIUM CHLORIDE, DISTEARYLDIMONIUM CHLORIDE, STEARTRIMONIUM CHLORIDE, LAURETH-5, AMODIMETHICONE, DIMETHICONOL, POLYSILICONE-9, CITRIC ACID, ISOPROPYL ALCOHOL, BUTYLENE GLYCOL, GLYCERIN, PHENOXYETHANOL, FRAGRANCE

SECTION 3 - HAZARDOUS INGREDIENTS

| CHEMICAL NAME | CAS No. | OSHA (PEL) | ACGIH (TLV) | NIOSH (REL) | LD ⁵⁰ | 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, CO₂

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.

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: 29 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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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: | 3 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 ⁵⁰ | 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 ⁵⁰ | Maximum Composition |
|---------------|---------|----------------------|----------------------------|----------------------|------------------------|---------------------|
| Glycerin | 56-81-5 | 15 mg/m ³ | 10 mg/m ³ (TWA) | 10 mg/m ³ | 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



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, CO₂

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. |
|-----------------|---|

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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| | | |
|----------------|------------------|---|
| 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 ⁵⁰ | 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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
 LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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.

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
 LD⁵⁰ 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 ⁵⁰ | Maximum Composition |
|---------------------|-----------|---------------|---------------------|---------------------|------------------|------------------------|
| Potassium Hydroxide | 1310-58-3 | | 2 mg/m ³ | 2 mg/m ³ | | < 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, CO₂

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
LD⁵⁰ 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
 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: +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 ⁵⁰ | 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, CO₂

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.

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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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
LD⁵⁰ 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
 Manufacturer's Name: Milbon Co., Ltd.
 Manufacturer'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 ⁵⁰ | 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, CO₂

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. |
|-----------------|---|

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 ⁵⁰ | Lethal dose 50 percent kill |

-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 ⁵⁰ | 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



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, CO₂

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. |
|-----------------|---|

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. |

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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 ⁵⁰ | Lethal dose 50 percent kill |

-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 ⁵⁰ | 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, CO₂

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. |
|-----------------|--|

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. |

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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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|--|

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. |

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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
LD⁵⁰ 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 ⁵⁰ | 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, CO₂

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. |
|-----------------|--|

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. |

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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 ⁵⁰ | Lethal dose 50 percent kill |

-Nothing Follows