



## Material Safety Data Sheet

Copyright, 2012, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M Brand Liquid Stainless Steel Cleaner and Polish  
**MANUFACTURER:** 3M  
**DIVISION:** Building & Commercial Services Division  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000

**EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)**

**Issue Date:** 01/03/12  
**Supersedes Date:** 06/21/10

**Document Group:** 06-4351-0

#### Product Use:

**Intended Use:** Metal Cleaner and Polish  
**Specific Use:** Sprayable liquid cleans and polishes stainless steel, chrome, aluminum and laminated plastic surfaces to a high gloss in one step.

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>             | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|-------------------------------|-------------------|----------------|
| WATER                         | 7732-18-5         | 40 - 70        |
| WHITE MINERAL OIL (PETROLEUM) | 8042-47-5         | 10 - 30        |
| NAPHTHOL SPIRITS              | 64742-48-9        | 7 - 13         |
| SORBITAN OLEATE               | 1338-43-8         | 3 - 7          |
| SORBITOL                      | 50-70-4           | 1 - 5          |
| D-LIMONENE                    | 5989-27-5         | 0.1 - 1        |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Liquid

**Odor, Color, Grade:** Creamy white emulsion, mild citrus fragrance

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:** May cause allergic skin reaction. May cause target organ effects.



## Material Safety Data Sheet

Copyright, 2012, 3M Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M Brand STAINLESS STEEL CLEANER & POLISH

**MANUFACTURER:** 3M

**DIVISION:** Building & Commercial Services Division

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000

**EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)**

**Issue Date:** 04/25/12

**Supersedes Date:** 10/04/11

**Document Group:** 10-2819-0

#### Product Use:

Intended Use: Metal Polish

Specific Use: Cleans and polishes stainless steel, chrome, aluminum and laminated plastic surfaces.

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>             | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|-------------------------------|-------------------|----------------|
| WATER                         | 7732-18-5         | 40 - 70        |
| WHITE MINERAL OIL (PETROLEUM) | 8042-47-5         | 10 - 30        |
| ISOBUTANE                     | 75-28-5           | 7 - 13         |
| SORBITAN OLEATE               | 1338-43-8         | 0.5 - 1.5      |
| ETHANOLAMINE                  | 141-43-5          | 0.1 - 1        |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Aerosol

**Odor, Color, Grade:** Thick white emulsion citrus odor

**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:** Aerosol container contains flammable gas under pressure. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause target organ effects.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin Contact:**

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

**Inhalation:**

Intentional concentration and inhalation may be harmful or fatal.

Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

May be absorbed following inhalation and cause target organ effects.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** Remove person to fresh air. Get immediate medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

### 4.2 NOTE TO PHYSICIANS

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

|  |                          |
|--|--------------------------|
| <b>Autoignition temperature</b>          | <i>No Data Available</i> |
| <b>Flash Point</b>                       | <i>No flash point</i>    |
| <b>Flammable Limits(LEL)</b>             | <i>No Data Available</i> |
| <b>Flammable Limits(UEL)</b>             | <i>No Data Available</i> |
| <b>OSHA Flammability Classification:</b> | <i>Not Applicable</i>    |

### 5.2 EXTINGUISHING MEDIA

Material will not burn. Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Closed containers exposed to heat from fire may build pressure and explode. Aerosol container contains flammable material under pressure. Vapors may travel long distances along the ground or floor to an ignition source and flash back. (AEROSOL STORAGE level indicated below is based on NFPA 30B definition)  
Classified as Div 2.2 nonflammable aerosol based on the results of flame projection testing according to ASTM D3065.

**Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.**

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Close cylinder. If the cylinder can't be closed, place in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors.

### 6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

### Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with detergent and water.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not pierce or burn container, even after use. Do not spray near flames or sources of ignition. Avoid breathing of vapors, mists or spray. Aerosol container contains flammable gas under pressure. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid contact with oxidizing agents. Avoid skin contact. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

### 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Do not store containers on their sides. Store away from oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 ENGINEERING CONTROLS

Use in a well-ventilated area. If exhaust ventilation is not available, use appropriate respiratory protection. Do not remain in area where available oxygen may be reduced.

## 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields

### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Neoprene

Nitrile Rubber

### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

## 8.3 EXPOSURE GUIDELINES

| <u>Ingredient</u>             | <u>Authority</u> | <u>Type</u> | <u>Limit</u>         | <u>Additional Information</u> |
|-------------------------------|------------------|-------------|----------------------|-------------------------------|
| ETHANOLAMINE                  | ACGIH            | TWA         | 3 ppm                |                               |
| ETHANOLAMINE                  | ACGIH            | STEL        | 6 ppm                |                               |
| ETHANOLAMINE                  | OSHA             | TWA         | 6 mg/m <sup>3</sup>  |                               |
| WHITE MINERAL OIL (PETROLEUM) | CMRG             | TWA         | 5 mg/m <sup>3</sup>  |                               |
| WHITE MINERAL OIL (PETROLEUM) | CMRG             | STEL        | 10 mg/m <sup>3</sup> |                               |

### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                                  |
|---------------------------------|----------------------------------|
| <b>Specific Physical Form:</b>  | Aerosol                          |
| <b>Odor, Color, Grade:</b>      | Thick white emulsion citrus odor |
| <b>General Physical Form:</b>   | Liquid                           |
| <b>Autoignition temperature</b> | <i>No Data Available</i>         |
| <b>Flash Point</b>              | No flash point                   |
| <b>Flammable Limits(LEL)</b>    | <i>No Data Available</i>         |
| <b>Flammable Limits(UEL)</b>    | <i>No Data Available</i>         |
| <b>Boiling Point</b>            | Approximately 212 °F             |

|                                |  |
|--------------------------------|--|
| Density                        | Approximately 0.95 g/ml                                  |
| Vapor Density                  | No Data Available  |
| Vapor Pressure                 | No Data Available  |
| Specific Gravity               | Approximately 1 [Ref Std: WATER=1]                       |
| pH                             | 9 - 11   |
| Melting point                  | No Data Available  |
| Solubility In Water            | No Data Available  |
| Solubility in Water            | Complete   |
| Evaporation rate               | No Data Available  |
| Volatile Organic Compounds     | 7 - 13 % [Test Method: calculated per CARB title 2]      |
| Kow - Oct/Water partition coef | No Data Available  |
| Percent volatile               | 45 - 85 %  |
| VOC Less H2O & Exempt Solvents | 170 - 330 g/l [Test Method: calculated per CARB title 2] |
| Viscosity                      | < 4500 centipoise [Details: For Liquid]                  |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

### Materials and Conditions to Avoid:

#### 10.1 Conditions to avoid

Heat  
Sparks and/or flames

#### 10.2 Materials to avoid

Strong oxidizing agents  
Strong acids

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

#### Substance

Carbon monoxide  
Carbon dioxide

#### Condition

During Combustion  
During Combustion

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

## CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Incinerate in an industrial or commercial facility. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.  
Empty aerosol cans may be recycled where facilities exist.

**EPA Hazardous Waste Number (RCRA):** Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

| ID Number      | UPC               | ID Number      | UPC               |
|----------------|-------------------|----------------|-------------------|
| 61-5000-6132-2 | 000-48011-14002-0 | 70-0708-4135-1 | 031-34375-35244-9 |
| 70-0711-3340-2 | 000-48011-34736-3 | 70-0711-3341-0 | 000-48011-34737-0 |
| 70-0713-1355-8 | 000-48011-59158-2 | 70-0713-1493-7 | 000-48011-59249-7 |

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### 311/312 Hazard Categories:

Fire Hazard - No    Pressure Hazard - Yes    Reactivity Hazard - No    Immediate Hazard - Yes    Delayed Hazard - No

### STATE REGULATIONS

### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. The components of this material are in compliance with the new chemical notification requirements for the Korean Existing Chemicals Inventory.

The components of this product are listed on the Australian Inventory of Chemical Substances.

The components of this product are listed on Japan's Chemical Substance Control Law List (also known as the Existing and New Chemical Substances List.)

All the components of this product are listed on China's Inventory of Chemical Substances.

The components of this product are in compliance with notification requirements in the Philippines.

This product complies with the New Zealand Hazardous Substances and New Organisms Act (1996).

The components of this product are listed on the Canadian Domestic Substances List.

## INTERNATIONAL REGULATIONS

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

### NFPA Hazard Classification

Health: 2 Flammability: 0 Reactivity: 0 Special Hazards: None  
Aerosol Storage Code: 1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

Health: 2 Flammability: 0 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

**Reason for Reissue:** Add new stock number 70-0712-7966-8

### Revision Changes:

Section 15: Inventories information was modified.  
Section 2: Ingredient table was modified.  
Section 8: Exposure guidelines ingredient information was modified.  
Copyright was modified.

**DISCLAIMER:** The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M

3M USA MSDSs are available at [www.3M.com](http://www.3M.com)



### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

**Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Inhalation:**

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

May be absorbed following ingestion and cause target organ effects.

**Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

**Autoignition temperature**

*No Data Available*

**Flash Point**

Approximately 208 °F [*Test Method:* Pensky-Martens Closed Cup]

**Flammable Limits(LEL)**

*No Data Available*

**Flammable Limits(UEL)**

*No Data Available*

**OSHA Flammability Classification:**

Class IIIB Combustible Liquid

## 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

## 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Non-flammable: ordinary combustible material.

**Note:** See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode.

### 6.2. Environmental precautions

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

### Clean-up methods

Observe precautions from other sections. Call 3M- HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Keep out of the reach of children. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid eye contact with vapors, mists, or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

### 7.2 STORAGE

Store under normal warehouse conditions.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use in a well-ventilated area.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

**8.2.1 Eye/Face Protection**

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields

**8.2.2 Skin Protection**

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Nitrile Rubber

**8.2.3 Respiratory Protection**

Avoid breathing of vapors, mists or spray. Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

**8.2.4 Prevention of Swallowing**

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

**8.3 EXPOSURE GUIDELINES**

| <u>Ingredient</u>                 | <u>Authority</u>        | <u>Type</u>             | <u>Limit</u> | <u>Additional Information</u> |
|-----------------------------------|-------------------------|-------------------------|--------------|-------------------------------|
| D-LIMONENE                        | AIHA                    | TWA                     | 165.5 mg/m3  |                               |
| NAPHTHOL SPIRITS                  | Manufacturer determined | TWA                     | 100 ppm      |                               |
| MINERAL OILS, HIGHLY-REFINED OILS | ACGIH                   | TWA, inhalable fraction | 5 mg/m3      |                               |
| Paraffin oil                      | OSHA                    | TWA, as mist            | 5 mg/m3      |                               |
| WHITE MINERAL OIL (PETROLEUM)     | CMRG                    | TWA                     | 5 mg/m3      |                               |
| WHITE MINERAL OIL (PETROLEUM)     | CMRG                    | STEL                    | 10 mg/m3     |                               |

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|                                 |   |
|---------------------------------|---|
| <b>Specific Physical Form:</b>  | Liquid  |
| <b>Odor, Color, Grade:</b>      | Creamy white emulsion, mild citrus fragrance                  |
| <b>General Physical Form:</b>   | Liquid  |
| <b>Autoignition temperature</b> | No Data Available   |
| <b>Flash Point</b>              | Approximately 208 °F [Test Method: Pensky-Martens Closed Cup] |
| <b>Flammable Limits(LEL)</b>    | No Data Available   |
| <b>Flammable Limits(UEL)</b>    | No Data Available   |
| <b>Boiling Point</b>            | Approximately 212 °F  |
| <b>Density</b>                  | No Data Available   |
| <b>Vapor Density</b>            | No Data Available   |
| <b>Vapor Pressure</b>           | < 16 psia [@ 131 °F]  |

|                                |                                    |
|--------------------------------|------------------------------------|
| Specific Gravity               | Approximately 1 [Ref Std: WATER=1] |
| pH                             | Approximately 7                    |
| Melting point                  | <i>Not Applicable</i>              |
| Solubility In Water            | <i>No Data Available</i>           |
| Solubility in Water            | <i>No Data Available</i>           |
| Evaporation rate               | <i>No Data Available</i>           |
| Volatile Organic Compounds     | 7 - 13 % weight                    |
| VOC Less H2O & Exempt Solvents | 175 - 330 g/l                      |
| Viscosity                      | <i>No Data Available</i>           |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:**

### 10.1 Conditions to avoid

None known

### 10.2 Materials to avoid

None known

**Hazardous Polymerization:** Hazardous polymerization will not occur.

## Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| Carbon monoxide  | Not Specified    |
| Carbon dioxide   | Not Specified    |

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not determined.

### CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HCl. Facility must be capable of handling halogenated materials.

As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

| ID Number      | UPC              | ID Number      | UPC              |
|----------------|------------------|----------------|------------------|
| 70-0705-8025-6 | 00-48011-19927-1 | 70-0705-8028-0 | 00-48011-19930-1 |

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

### STATE REGULATIONS

### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. The components of this material are in compliance with the new chemical notification requirements for the Korean Existing Chemicals Inventory.

The components of this product are listed on the Australian Inventory of Chemical Substances.

The components of this product are in compliance with notification requirements in the Philippines.

The components of this product are listed on the Canadian Domestic Substances List.

### INTERNATIONAL REGULATIONS

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

### NFPA Hazard Classification

Health: 2 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

### HMIS Hazard Classification

**Health: 2 Flammability: 1 Reactivity: 0 Protection: X** - See PPE section.

Hazardous Material Identification System (HMIS®) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes:

Section 1: Product use information was modified.  
Section 16: Disclaimer (second paragraph) was modified.  
Section 10: Hazardous decomposition or by-products table was modified.  
Section 14: Transportation legal text was modified.  
Section 16: HMIS explanation was modified.  
Section 15: Inventories information was modified.  
Section 9: Density information was modified.  
Section 9: Vapor density value was modified.  
Section 9: Vapor pressure value was modified.  
Section 9: Boiling point information was modified.  
Section 5: Flammable limits (UE) information was modified.  
Section 5: Flammable limits (LEL) information was modified.  
Section 5: Autoignition temperature information was modified.  
Section 5: Flash point information was modified.  
Section 9: Property description for optional properties was modified.  
Section 9: Specific gravity information was modified.  
Section 9: pH information was modified.  
Section 9: Melting point information was modified.  
Section 9: Solubility in water value was modified.  
Section 9: Solubility in water text was modified.  
Section 9: Flash point information was modified.  
Section 9: Flammable limits (LEL) information was modified.  
Section 9: Flammable limits (UEL) information was modified.  
Section 9: Autoignition temperature information was modified.  
Section 14: ID Number(s) and/or UPC(s) Template 1 was modified.  
Section 2: Ingredient table was modified.  
Section 8: Exposure guidelines ingredient information was modified.  
Section 6: 6.2. Environmental precautions heading was modified.  
Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was modified.  
Section 16: Web address was added.  
Section 1: Address was added.  
Copyright was added.  
Company logo was added.  
Telephone header was added.  
Company Telephone was added.  
Section 1: Emergency phone information was added.  
Section 1: Emergency phone information was deleted.  
Company Logo was deleted.  
Copyright was deleted.  
Section 16: Web address heading was deleted.  
Section 1: Address line 1 was deleted.  
Section 1: Address line 2 was deleted.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of

use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M

**3M USA MSDSs are available at [www.3M.com](http://www.3M.com)**