# Safety Data Sheet

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|---|---|---|---|
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## SECTION 1: Identification

**1.1. Product identifier**
3M™ Stainless Steel Cleaner & Polish

**Product Identification Numbers**

| ID Number | UPC | ID Number | UPC |
|---|---|---|---|
| 61-5000-6132-2 | 000-48011-14002-0 | 70-0713-1355-8 | 000-48011-59158-2 |
| 70-0713-1493-7 | 000-48011-59249-7 | | |

7000000697, 7000011493, 7100134552, 7010340387

**1.2. Recommended use and restrictions on use**

**Recommended use**
Metal Polish, Cleans and polishes stainless steel, chrome, aluminum and laminated plastic surfaces.

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Commercial Branding and Transportation Division |
| **ADDRESS:** | 3M Center, St. Paul, MN 55144-1000, USA |
| **Telephone:** | 1-888-3M HELPS (1-888-364-3577) |

**1.4. Emergency telephone number**
1-800-364-3577 or (651) 737-6501 (24 hours)

## SECTION 2: Hazard identification

**2.1. Hazard classification**
Aerosol Category 1
Specific Target Organ Toxicity (single exposure): Category 1.

**2.2. Label elements**
**Signal word**
Danger

**Symbols**
Flame |Health Hazard |

**Pictograms**



**Hazard Statements**
Extremely flammable aerosol.
Pressurized container: may burst if heated.

Causes damage to organs: cardiovascular system.

**Precautionary statements**

**Prevention:**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe vapor or spray.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.

**Response:**
IF exposed or concerned: Call a POISON CENTER or doctor.
Specific treatment (see Notes to Physician on this label).

**Storage:**
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C).

**Disposal:**
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

**Notes to Physician:**
Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**Supplemental Information:**
Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Water | 7732-18-5 | 65 - 85 |
| Mineral Oil | 8042-47-5 | 10 - 30 Trade Secret * |
| Isobutane | 75-28-5 | 7 - 13 Trade Secret * |
| Sorbitan Oleate | 1338-43-8 | 0.5 - 1.5 |
| Ethanolamine | 141-43-5 | < 0.5 |
| Fragrance Compound | Trade Secret* | < 0.5 |

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# SECTION 4: First aid measures

**4.1. Description of first aid measures**

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

**Skin Contact:**
Wash with soap and water. If you feel unwell, get medical attention.

**Eye Contact:**
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**
Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

Target organ effects. See Section 11 for additional details.

**4.3. Indication of any immediate medical attention and special treatment required**
Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

# SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
Use a fire fighting agent suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture**
Closed containers exposed to heat from fire may build pressure and explode.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |

**5.3. Special protective actions for fire-fighters**
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

# SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

**6.2. Environmental precautions**
For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. 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. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
For industrial/occupational use only. Not for consumer sale or use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Occupational exposure limits**
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|---|---|---|---|---|
| Ethanolamine | 141-43-5 | ACGIH | TWA:3 ppm;STEL:6 ppm | |
| Ethanolamine | 141-43-5 | OSHA | TWA:6 mg/m3(3 ppm) | |
| Butane, all isomers | 75-28-5 | ACGIH | STEL:1000 ppm | |
| Natural gas | 75-28-5 | ACGIH | Limit value not established: | simple asphyxiant |
| Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction | 8042-47-5 | ACGIH | TWA(inhalable fraction):5 mg/m3 | A4: Not class. as human carcin |
| OIL MIST (MINERAL) | 8042-47-5 | OSHA | TWA(as mist):5 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

**8.2. Exposure controls**

**8.2.1. Engineering controls**
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect Vented Goggles

**Skin/hand protection**
No chemical protective gloves are required.

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Specific Physical Form:** | Aerosol |
| **Color** | White |
| **Odor** | Mild Citrus |
| **Odor threshold** | *No Data Available* |
| **pH** | 9 - 11 |
| **Melting point** | *Not Applicable* |
| **Boiling Point** | > 212 ºF |
| **Flash Point** | *No Data Available* |
| **Evaporation rate** | *No Data Available* |
| **Flammability** | Flammable Aerosol: Category 1. |
| **Flammable Limits(LEL)** | *No Data Available* |
| **Flammable Limits(UEL)** | *No Data Available* |
| **Vapor Pressure** | *No Data Available* |
| **Relative Vapor Density** | *No Data Available* |
| **Density** | 0.95 g/ml |
| **Relative Density** | 0.92 - 0.98 [*Ref Std:*WATER=1] |
| **Solubility in Water** | Complete |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | 3,053 mm2/sec |
| **Molecular weight** | *No Data Available* |
| **Volatile Organic Compounds** | 10 - 12 % weight [*Test Method:*calculated per CARB title 2] |
| **Percent volatile** | 75 - 80 % weight |
| **VOC Less H2O & Exempt Solvents** | 265 - 295 g/l [*Test Method:*calculated per CARB title 2] |
| **Particle Characteristics** | *Not Applicable* |

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

**10.2. Chemical stability**
Stable.

**10.3. Possibility of hazardous reactions**
Hazardous polymerization will not occur.

**10.4. Conditions to avoid**
Heat
Sparks and/or flames

**10.5. Incompatible materials**
Strong oxidizing agents
Strong acids

**10.6. Hazardous decomposition products**

| Substance | Condition |
|---|---|
| None known. | |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

**The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.**

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

**Inhalation:**
May cause additional health effects (see below).

**Skin Contact:**
Contact with the skin during product use is not expected to result in significant irritation.

**Eye Contact:**
Contact with the eyes during product use is not expected to result in significant irritation.

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

**Additional Health Effects:**

**Single exposure may cause target organ effects:**
Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular

heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

**Toxicological Data**
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Mineral Oil | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Mineral Oil | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Isobutane | Inhalation-Gas (4 hours) | Rat | LC50 276,000 ppm |
| Sorbitan Oleate | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Sorbitan Oleate | Ingestion | Rat | LD50 > 39,800 mg/kg |
| Ethanolamine | Inhalation-Vapor | official classification | LC50 estimated to be 10 - 20 mg/l |
| Ethanolamine | Dermal | Rabbit | LD50 2,504 mg/kg |
| Ethanolamine | Ingestion | Rat | LD50 1,089 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Mineral Oil | Rabbit | No significant irritation |
| Isobutane | Professional judgement | No significant irritation |
| Ethanolamine | Rabbit | Corrosive |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Mineral Oil | Rabbit | Mild irritant |
| Isobutane | Professional judgement | No significant irritation |
| Ethanolamine | Rabbit | Corrosive |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Mineral Oil | Guinea pig | Not classified |
| Ethanolamine | Guinea pig | Not classified |

**Respiratory Sensitization**
For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| Mineral Oil | In Vitro | Not mutagenic |
| Isobutane | In Vitro | Not mutagenic |
| Ethanolamine | In Vitro | Not mutagenic |
| Ethanolamine | In vivo | Not mutagenic |

### Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Mineral Oil | Dermal | Mouse | Not carcinogenic |
| Mineral Oil | Inhalation | Multiple animal species | Not carcinogenic |

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| Mineral Oil | Ingestion | Not classified for female reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| Mineral Oil | Ingestion | Not classified for male reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| Mineral Oil | Ingestion | Not classified for development | Rat | NOAEL 4,350 mg/kg/day | during gestation |
| Ethanolamine | Dermal | Not classified for development | Rat | NOAEL 225 mg/kg/day | during organogenesis |
| Ethanolamine | Ingestion | Not classified for development | Rat | NOAEL 450 mg/kg/day | during organogenesis |

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Isobutane | Inhalation | cardiac sensitization | Causes damage to organs | Multiple animal species | NOAEL Not available | |
| Isobutane | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human and animal | NOAEL Not available | |
| Isobutane | Inhalation | respiratory irritation | Not classified | Mouse | NOAEL Not available | |
| Ethanolamine | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Mineral Oil | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,381 mg/kg/day | 90 days |
| Mineral Oil | Ingestion | liver | Not classified | Rat | NOAEL 1,336 mg/kg/day | 90 days |
| Mineral Oil | Ingestion | immune system | Not classified | Rat | NOAEL 1,336 mg/kg/day | 90 days |
| Isobutane | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 4,500 ppm | 13 weeks |
| Ethanolamine | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.1559 mg/l | 28 days |
| Ethanolamine | Inhalation | liver | Not classified | Rat | NOAEL 0.1559 mg/l | 28 days |
| Ethanolamine | Inhalation | respiratory system | Not classified | Rat | LOAEL 0.0102 mg/l | 28 days |
| Ethanolamine | Inhalation | heart | Not classified | Rat | NOAEL | 28 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | 0.1559 mg/l | |
| Ethanolamine | Inhalation | endocrine system | Not classified | Rat | NOAEL 0.1559 mg/l | 28 days |
| Ethanolamine | Inhalation | immune system | Not classified | Rat | NOAEL 0.1559 mg/l | 28 days |
| Ethanolamine | Inhalation | nervous system | Not classified | Rat | NOAEL 0.1559 mg/l | 28 days |
| Ethanolamine | Inhalation | eyes | Not classified | Rat | NOAEL 0.1559 mg/l | 28 days |
| Ethanolamine | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.1559 mg/l | 28 days |
| Ethanolamine | Ingestion | hematopoietic system | Not classified | Rat | NOAEL Not available | |
| Ethanolamine | Ingestion | liver | Not classified | Rat | NOAEL Not available | |
| Ethanolamine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL Not available | |
| Ethanolamine | Ingestion | respiratory system | Not classified | Rat | NOAEL Not available | |

**Aspiration Hazard**

| Name | Value |
|---|---|
| Mineral Oil | Aspiration hazard |

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

# SECTION 12: Ecological information

## Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

## Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# SECTION 13: Disposal considerations

**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable)

# SECTION 14: Transport Information

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

# SECTION 15: Regulatory information

## 15.1. US Federal Regulations

**EPCRA 311/312 Hazard Classifications:**

| **Physical Hazards** |
|---|
| Flammable (gases, aerosols, liquids, or solids) |

| **Health Hazards** |
|---|
| Specific target organ toxicity (single or repeated exposure) |

## 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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

## 15.4. International Regulations

**This SDS 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:** 4 **Instability:** 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.

| | | | |
|---|---|---|---|
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