# Safety Data Sheet

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|---|---|---|---|
| **Document Group:** | 34-5915-3 | **Version Number:** | 4.02 |
| **Issue Date:** | 12/11/25 | **Supersedes Date:** | 05/03/21 |

**Product identifier**
3M™ Scotchkote™ Liquid Epoxy Coating 323+ Spray Grade

**ID Number(s):**

80-6116-1770-7, 80-6116-1771-5, 80-6116-1772-3

7100168702, 7010319961, 7100142524

**Recommended use**
Coating, Liquid Epoxy Coating for Pipelines

**Supplier's details**

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

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

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:**

34-5638-1, 34-5624-1

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# Safety Data Sheet

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|---|---|---|---|
| **Document Group:** | 34-5624-1 | **Version Number:** | 13.00 |
| **Issue Date:** | 11/18/26 | **Supersedes Date:** | 11/16/26 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotchkote™ Liquid Epoxy Coating 323+ Spray Grade, Part A

**Product Identification Numbers**

| ID Number | UPC | ID Number | UPC |
|---|---|---|---|
| LH-A100-1964-0 | | LH-A100-2082-3 | |
| LH-A100-2082-4 | | 80-6116-1747-5 | 000-51128-61415-0 |
| 80-6116-1749-1 | 000-51128-61418-1 | | |

7100136972, 7100136968

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

**Recommended use**
Coating, Part A of a 2 Part Liquid Coating System

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Electrical Markets 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**
Serious Eye Damage/Irritation: Category 2B.
Skin Sensitizer: Category 1.

**2.2. Label elements**
**Signal word**
Warning

**Symbols**
Exclamation mark |

**Pictograms**



**Hazard Statements**

Causes eye irritation.
May cause an allergic skin reaction.

**Precautionary statements**

**Prevention:**
Avoid breathing vapor or spray.
Wash exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

**Response:**
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists or if skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

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

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | 25068-38-6 | 30 - 60 Trade Secret * |
| Talc | 14807-96-6 | 10 - 30 Trade Secret * |
| Nepheline Syenite | 37244-96-5 | 10 - 20 |
| Cashew, nutshell liq., polymer with epichlorohydrin | 68413-24-1 | 3 - 7 Trade Secret * |
| Titanium Dioxide | 13463-67-7 | 1 - 5 Trade Secret * |
| WHITE MINERAL OIL (PETROLEUM) | 8042-47-5 | < 1 |
| Amide/Polymer Hybrid | None | < 1 |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | 64741-89-5 | < 1 |

*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. If you feel unwell, get medical attention.

**Skin Contact:**
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, 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**

Allergic skin reaction (redness, swelling, blistering, and itching).

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

## SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Chloride | During Combustion |
| Irritant Vapors or Gases | 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. 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. 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**
Avoid release to the environment. 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**
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. Place in a closed container approved for transportation by appropriate authorities. 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 SDS. 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**
Avoid breathing 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**
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 |
|---|---|---|---|---|
| Titanium Dioxide | 13463-67-7 | ACGIH | TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3 | A3: Confirmed animal carcin. |
| Titanium Dioxide | 13463-67-7 | OSHA | TWA(as total dust):15 mg/m3 | |
| Talc | 14807-96-6 | ACGIH | TWA(respirable fraction):2 mg/m3 | A4: Not class. as human carcin |
| Talc | 14807-96-6 | OSHA | TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft. | |
| Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction | 64741-89-5 | ACGIH | TWA(inhalable fraction):5 mg/m3 | A4: Not class. as human carcin |
| 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**
Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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:
Full Face Shield
Indirect Vented Goggles

**Skin/hand protection**
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

The following protective clothing material(s) are also recommended: Coveralls - Disposable, laminate
Boots - Rubber

**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 air-purifying respirator suitable for organic vapors
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:** | Paste |
| **Color** | White |
| **Odor** | Moderate Epoxy |
| **Odor threshold** | *No Data Available* |
| **pH** | [*Details:*No data available]*No Data Available* |

| | |
|---|---|
| **Melting point** | *No Data Available* |
| **Boiling Point** | > 200 ºF |
| **Flash Point** | Flash point > 93 °C (200 °F) |
| **Evaporation rate** | *No Data Available* |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | *No Data Available* |
| **Flammable Limits(UEL)** | *No Data Available* |
| **Vapor Pressure** | 0.01 mmHg [*Test Method:*Calculated] [*Details:*at 25C, Raoult's Law] |
| **Relative Vapor Density** | *No Data Available* |
| **Density** | 11.96 lb/gal |
| **Relative Density** | 1.43 [*Ref Std:*WATER=1] |
| **Solubility In Water** | *No Data Available* |
| **Solubility- non-water** | Nil |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *No Data Available* |
| **Decomposition temperature** | *No Data Available* |
| **Kinematic Viscosity** | *No Data Available* |
| **Volatile Organic Compounds** | 0 g/l [*Test Method:*calculated per EPA method 24] [*Details:*For Parts A and B as mixed.] |

* The values noted with an asterisk (*) in the above table are representative values based on testing of raw materials and selected products. Additionally, a material's characteristics may change depending upon the process and conditions of use at a facility, including further changes in particle size, or mixture with other materials. In order to obtain specific data for the material, we recommend the user conduct characterization testing based on the use factors at the specific facility.

| | |
|---|---|
| **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

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

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

**Skin Contact:**
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

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

**Carcinogenicity:**

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Talc | 14807-96-6 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**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 |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | Rat | LD50 > 1,600 mg/kg |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Talc | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Talc | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| Nepheline Syenite | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Nepheline Syenite | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Cashew, nutshell liq., polymer with epichlorohydrin | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Titanium Dioxide | Dermal | Rabbit | LD50 > 10,000 mg/kg |
| Titanium Dioxide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 6.82 mg/l |
| Titanium Dioxide | Ingestion | Rat | LD50 > 10,000 mg/kg |
| WHITE MINERAL OIL (PETROLEUM) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | Rabbit | LD50 > 5,000 mg/kg |

| | | | |
|---|---|---|---|
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 4 mg/l |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Rabbit | Mild irritant |
| Talc | Rabbit | No significant irritation |
| Nepheline Syenite | Professional judgement | No significant irritation |
| Cashew, nutshell liq., polymer with epichlorohydrin | In vitro data | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| WHITE MINERAL OIL (PETROLEUM) | Rabbit | No significant irritation |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Rabbit | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Rabbit | Moderate irritant |
| Talc | Rabbit | No significant irritation |
| Nepheline Syenite | Professional judgement | Mild irritant |
| Cashew, nutshell liq., polymer with epichlorohydrin | In vitro data | No significant irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| WHITE MINERAL OIL (PETROLEUM) | Rabbit | Mild irritant |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Rabbit | No significant irritation |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Human and animal | Sensitizing |
| Cashew, nutshell liq., polymer with epichlorohydrin | Guinea pig | Sensitizing |
| Titanium Dioxide | Human and animal | Not classified |
| WHITE MINERAL OIL (PETROLEUM) | Guinea pig | Not classified |
| Amide/Polymer Hybrid | Mouse | Not classified |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Guinea pig | Not classified |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Human | Not classified |
| Talc | Human | Not classified |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | In vivo | Not mutagenic |

| | | |
|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |
| Cashew, nutshell liq., polymer with epichlorohydrin | In Vitro | Not mutagenic |
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| WHITE MINERAL OIL (PETROLEUM) | In Vitro | Not mutagenic |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | In vivo | Not mutagenic |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Talc | Dermal | Human | Some positive data exist, but the data are not sufficient for classification |
| Talc | Inhalation | Rat | Carcinogenic |
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |
| WHITE MINERAL OIL (PETROLEUM) | Dermal | Mouse | Not carcinogenic |
| WHITE MINERAL OIL (PETROLEUM) | Inhalation | Multiple animal species | Not carcinogenic |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| Talc | Ingestion | Not classified for development | Rat | NOAEL 1,600 mg/kg | during organogenesis |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 48 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | Not classified for development | Rat | NOAEL 62.5 mg/kg/day | premating into lactation |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | Not classified for female reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | Not classified for male reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | Not classified for development | Rat | NOAEL 4,350 mg/kg/day | during gestation |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure |
|---|---|---|---|---|---|---|

| | | | | | | Duration |
|---|---|---|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | auditory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |
| Talc | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis | Not classified | Rat | NOAEL 18 mg/m3 | 113 weeks |
| Talc | Inhalation | respiratory system | Not classified | Rat | NOAEL 18 mg/m3 | 113 weeks |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | gastrointestinal tract | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 62.5 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | skin | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | muscles | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Cashew, nutshell liq., polymer with epichlorohydrin | Ingestion | vascular system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 90 days |
| Titanium Dioxide | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 0.01 mg/l | 2 years |
| Titanium Dioxide | Inhalation | pulmonary fibrosis | Not classified | Human | NOAEL Not available | occupational exposure |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,381 mg/kg/day | 90 days |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | liver | Not classified | Rat | NOAEL 1,336 mg/kg/day | 90 days |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | immune system | Not classified | Rat | NOAEL 1,336 mg/kg/day | 90 days |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 5,000 mg/kg/day | 3 weeks |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | liver | Not classified | Rabbit | NOAEL 5,000 mg/kg/day | 3 weeks |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | kidney and/or bladder | Not classified | Rabbit | NOAEL 5,000 mg/kg/day | 3 weeks |

**Aspiration Hazard**

| Name | Value |
|---|---|
| WHITE MINERAL OIL (PETROLEUM) | Aspiration hazard |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | 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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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):** Not regulated

# 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
Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

| Physical Hazards |
|---|
| Not Applicable. |

| Health Hazards |
|---|
| Respiratory or Skin Sensitization |
| Serious eye damage or eye irritation |

## 15.2. State Regulations
Contact 3M for more information.

## 15.3. Chemical Inventories
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 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.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

**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:** 1 **Instability:** 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 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

| | | | |
|---|---|---|---|
| **Document Group:** | 34-5624-1 | **Version Number:** | 13.00 |
| **Issue Date:** | 11/18/26 | **Supersedes Date:** | 11/16/26 |

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# Safety Data Sheet

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|---|---|---|---|
| **Document Group:** | 34-5638-1 | **Version Number:** | 17.00 |
| **Issue Date:** | 11/18/26 | **Supersedes Date:** | 12/12/25 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotchkote™ Liquid Epoxy Coating 323+ Spray Grade, Part B

**Product Identification Numbers**
LH-A100-1964-1, LH-A100-2082-7, LH-A100-2082-8, 80-6116-1748-3, 80-6116-1750-9, 80-6116-1773-1
7100136969, 7100137058, 7100270449

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

**Recommended use**
Coating, Part B of a 2 Part Liquid Coating System

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Electrical Markets 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**
Skin Corrosion/Irritation: Category 1B.
Serious Eye Damage/Irritation: Category 1.
Skin Sensitizer: Category 1.
Reproductive Toxicity: Category 2.
Specific Target Organ Toxicity (single exposure): Category 1.
Specific Target Organ Toxicity (repeated exposure): Category 1.

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

**Symbols**
Corrosion |Exclamation mark |Health Hazard |

**Pictograms**



**Hazard Statements**

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Corrosive to the respiratory tract, if inhaled.

Causes damage to organs through prolonged or repeated exposure: respiratory system.

**Precautionary statements**

**Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapor or spray.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection, and face protection.

**Response:**
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Immediately call a POISON CENTER or doctor.
Get medical attention if you feel unwell.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

**Storage:**
Store locked up.

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

**2.3. Hazards not otherwise classified**
May cause chemical gastrointestinal burns.

**Supplemental Information:**
Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

10% of the mixture consists of ingredients of unknown acute oral toxicity.
12% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Nepheline Syenite | 37244-96-5 | 30 - 50 |
| N-Aminoethylpiperazine | 140-31-8 | 7 - 13 Trade Secret * |
| Styrenated Phenol | 61788-44-1 | 7 - 13 Trade Secret * |
| Talc | 14807-96-6 | 5 - 10 Trade Secret * |
| M-Xylene-.Alpha.Alpha'.-Diamine | 1477-55-0 | 5 - 10 Trade Secret * |
| P-T-BUTYLPHENOL/FORMALDEHYDE/MXDA/TMD MANNICH BASE | None | < 10 |
| P-Tert-Butylphenol | 98-54-4 | 5 - 10 Trade Secret * |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | 1760-24-3 | 1 - 5 Trade Secret * |
| Trimethylhexamethylenediamine | 25620-58-0 | 1 - 5 Trade Secret * |
| White Mineral Oil (Petroleum) | 8042-47-5 | < 1 |
| Amide/Polymer | None<br>3M Unique ID: 152968 | 0.1 - 1 Trade Secret * |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | 68845-16-9 | 0.1 - 1 Trade Secret * |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | 64741-89-5 | < 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 immediate medical attention.

**Skin Contact:**
Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

**Eye Contact:**
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If Swallowed:**
Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

Corrosive to respiratory tract (severe nose and throat pain, chest tightness and pain, wheezing, and breathlessness). Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

**4.3. Indication of any immediate medical attention and special treatment required**
Not applicable

# SECTION 5: Fire-fighting measures

**5.1. Suitable extinguishing media**
In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**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 |
| Oxides of Nitrogen | During Combustion |

**5.3. Special protective actions for fire-fighters**
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. 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. 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**
Avoid release to the environment. 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**
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. Place in a closed container approved for transportation by appropriate authorities. 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 SDS. 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**
Do not handle until all safety precautions have been read and understood. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep container tightly closed. 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 |
|---|---|---|---|---|
| M-Xylene-.Alpha.Alpha'.-Diamine | 1477-55-0 | ACGIH | CEIL:0.018 ppm | Danger of cutaneous absorption |
| Silicates (less than 1% crystalline silica) talc (containing asbestos) | 14807-96-6 | OSHA | TWA - Use asbestos limits: | |
| Talc | 14807-96-6 | ACGIH | TWA(respirable fraction):2 mg/m3 | A4: Not class. as human carcin |
| Talc | 14807-96-6 | OSHA | TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft. | |
| 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**
Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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:
Full Face Shield
Indirect Vented Goggles

**Skin/hand protection**
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

The following protective clothing material(s) are also recommended: Coveralls - Disposable, laminate

Boots - Rubber

**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 air-purifying respirator suitable for organic vapors and particulates
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 |
| **Color** | Green |
| **Odor** | Strong Amine |
| **Odor threshold** | *No Data Available* |
| **pH** | *No Data Available* |
| **Melting point** | *No Data Available* |
| **Boiling Point** | > 200 ºF |
| **Flash Point** | > 200 ºF [*Test Method:*Pensky-Martens Closed Cup] |
| **Evaporation rate** | < 1 [*Ref Std:*BUOAC=1] |
| **Flammability** | Not Applicable |
| **Flammable Limits(LEL)** | 1 % volume |
| **Flammable Limits(UEL)** | 7 % volume |
| **Vapor Pressure** | 0.05 mmHg [*Test Method:*Calculated] [*Details:*at 25C, Raoult's Law] |
| **Relative Vapor Density** | > 1 [*Ref Std:*AIR=1] |
| **Density** | 1.43 g/ml |
| **Relative Density** | 1.43 [*Ref Std:*WATER=1] |
| **Solubility in Water** | Slight (less than 10%) |
| **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** | 2,797 - 13,986 mm2/sec |
| **Volatile Organic Compounds** | 0 g/l [*Test Method:*calculated per EPA method 24] [*Details:*As mixed Parts A and B] |
| **VOC Less H2O & Exempt Solvents** | *Not Applicable* |
| **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**
None known.

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

**10.6. Hazardous decomposition products**

| Substance | Condition |
|---|---|
| Ammonia | During Storage |

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:**
Respiratory Tract Corrosion: Signs/symptoms may include nasal discharge, severe nose and throat pain, chest tightness and pain, coughing up blood, wheezing, and breathlessness, possibly progressing to respiratory failure. May cause additional health effects (see below).

**Skin Contact:**
May be harmful in contact with skin. Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

**Eye Contact:**
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Ingestion:**
May be harmful if swallowed. Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen. May cause additional health effects (see below).

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**
Dermal Effects: Signs/symptoms may include changes in skin pigmentation and/or coloration. Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

**Reproductive/Developmental Toxicity:**
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

**Carcinogenicity:**

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Talc | 14807-96-6 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |

**Additional Information:**
Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

**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 | Dermal | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Nepheline Syenite | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Nepheline Syenite | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Styrenated Phenol | Dermal | Rat | LD50 > 2,000 mg/kg |
| Styrenated Phenol | Ingestion | Rat | LD50 > 2,000 mg/kg |
| N-Aminoethylpiperazine | Dermal | Rabbit | LD50 865 mg/kg |
| N-Aminoethylpiperazine | Ingestion | Rat | LD50 1,470 mg/kg |
| Talc | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Talc | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| M-Xylene-.Alpha.Alpha'.-Diamine | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| P-Tert-Butylphenol | Dermal | Rabbit | LD50 2,318 mg/kg |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation-Dust/Mist (4 hours) | Rat | LC50 1.2 mg/l |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | Rat | LD50 980 mg/kg |
| P-Tert-Butylphenol | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.6 mg/l |
| P-Tert-Butylphenol | Ingestion | Rat | LD50 4,000 mg/kg |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Inhalation-Dust/Mist (4 hours) | Rat | LC50 >1.49, <2.44 mg/l |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Ingestion | Rat | LD50 1,897 mg/kg |
| Trimethylhexamethylenediamine | Ingestion | Rat | LD50 910 mg/kg |
| White Mineral Oil (Petroleum) | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| White Mineral Oil (Petroleum) | Ingestion | Rat | LD50 > 5,000 mg/kg |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Inhalation-Dust/Mist (4 hours) | Rat | LC50 >1.49, <2.44 mg/L mg/l |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Ingestion | Rat | LD50 1,897 mg/kg |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 4 mg/l |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name | Species | Value |
|---|---|---|
| Nepheline Syenite | Professional judgement | No significant irritation |
| Styrenated Phenol | Rabbit | No significant irritation |
| N-Aminoethylpiperazine | Rabbit | Corrosive |
| Talc | Rabbit | No significant irritation |
| M-Xylene-.Alpha.Alpha'.-Diamine | Rat | Corrosive |
| P-Tert-Butylphenol | Rabbit | Irritant |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Rabbit | Mild irritant |
| Trimethylhexamethylenediamine | Not available | Corrosive |
| White Mineral Oil (Petroleum) | Rabbit | No significant irritation |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Rabbit | Mild irritant |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Rabbit | Minimal irritation |

### Serious Eye Damage/Irritation

| Name | Species | Value |
|---|---|---|
| Nepheline Syenite | Professional judgement | Mild irritant |
| Styrenated Phenol | Rabbit | Mild irritant |
| N-Aminoethylpiperazine | Rabbit | Corrosive |
| Talc | Rabbit | No significant irritation |
| M-Xylene-.Alpha.Alpha'.-Diamine | Rabbit | Corrosive |
| P-Tert-Butylphenol | Rabbit | Corrosive |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Rabbit | Corrosive |
| Trimethylhexamethylenediamine | Rabbit | Corrosive |
| White Mineral Oil (Petroleum) | Rabbit | Mild irritant |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Rabbit | Corrosive |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Rabbit | No significant irritation |

### Skin Sensitization

| Name | Species | Value |
|---|---|---|
| Styrenated Phenol | Mouse | Sensitizing |
| N-Aminoethylpiperazine | Guinea pig | Sensitizing |
| M-Xylene-.Alpha.Alpha'.-Diamine | Guinea pig | Sensitizing |
| P-Tert-Butylphenol | Human and animal | Not classified |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Multiple animal species | Sensitizing |
| Trimethylhexamethylenediamine | Guinea pig | Sensitizing |
| Amide/Polymer | Mouse | Not classified |
| White Mineral Oil (Petroleum) | Guinea pig | Not classified |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Multiple animal species | Sensitizing |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Guinea pig | Not classified |

### Respiratory Sensitization

| Name | Species | Value |
|---|---|---|

| | | |
|---|---|---|
| Talc | Human | Not classified |

## Germ Cell Mutagenicity

| Name | Route | Value |
|---|---|---|
| N-Aminoethylpiperazine | In vivo | Not mutagenic |
| N-Aminoethylpiperazine | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |
| M-Xylene-.Alpha.Alpha'.-Diamine | In Vitro | Not mutagenic |
| M-Xylene-.Alpha.Alpha'.-Diamine | In vivo | Not mutagenic |
| P-Tert-Butylphenol | In Vitro | Not mutagenic |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | In Vitro | Not mutagenic |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | In vivo | Not mutagenic |
| Trimethylhexamethylenediamine | In vivo | Not mutagenic |
| White Mineral Oil (Petroleum) | In Vitro | Not mutagenic |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | In Vitro | Not mutagenic |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | In vivo | Not mutagenic |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | In Vitro | Some positive data exist, but the data are not sufficient for classification |

## Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| Talc | Dermal | Human | Some positive data exist, but the data are not sufficient for classification |
| Talc | Inhalation | Rat | Carcinogenic |
| P-Tert-Butylphenol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| White Mineral Oil (Petroleum) | Dermal | Mouse | Not carcinogenic |
| White Mineral Oil (Petroleum) | Inhalation | Multiple animal species | Not carcinogenic |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |

## Reproductive Toxicity

## Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| N-Aminoethylpiperazine | Ingestion | Not classified for female reproduction | Rat | NOAEL 598 mg/kg/day | premating & during gestation |
| N-Aminoethylpiperazine | Ingestion | Not classified for male reproduction | Rat | NOAEL 409 mg/kg/day | 32 days |
| N-Aminoethylpiperazine | Ingestion | Toxic to development | Rabbit | NOAEL 75 mg/kg/day | during gestation |
| Talc | Ingestion | Not classified for development | Rat | NOAEL 1,600 mg/kg | during organogenesis |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 450 mg/kg/day | premating into lactation |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 450 mg/kg/day | 48 days |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | Not classified for development | Rat | NOAEL 450 mg/kg/day | premating into lactation |
| P-Tert-Butylphenol | Ingestion | Not classified for male reproduction | Rat | NOAEL 600 mg/kg/day | 2 generation |
| P-Tert-Butylphenol | Ingestion | Not classified for development | Rat | NOAEL 70 mg/kg/day | 2 generation |
| P-Tert-Butylphenol | Ingestion | Toxic to female reproduction | Rat | NOAEL 200 | 2 generation |

| | | | | | |
|---|---|---|---|---|---|
| | | | | mg/kg/day | |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | premating into lactation |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 28 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | during gestation |
| Trimethylhexamethylenediamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 120 mg/kg/day | 2 generation |
| Trimethylhexamethylenediamine | Ingestion | Not classified for development | Rat | NOAEL 120 mg/kg/day | 2 generation |
| Trimethylhexamethylenediamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 10 mg/kg/day | 2 generation |
| White Mineral Oil (Petroleum) | Ingestion | Not classified for female reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| White Mineral Oil (Petroleum) | Ingestion | Not classified for male reproduction | Rat | NOAEL 4,350 mg/kg/day | 13 weeks |
| White Mineral Oil (Petroleum) | Ingestion | Not classified for development | Rat | NOAEL 4,350 mg/kg/day | during gestation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| N-Aminoethylpiperazine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not avaliable | |
| P-Tert-Butylphenol | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | LOAEL 5.6 mg/l | 4 hours |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

### Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| N-Aminoethylpiperazine | Dermal | skin | Not classified | Rat | NOAEL 100 mg/kg/day | 29 days |
| N-Aminoethylpiperazine | Dermal | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| N-Aminoethylpiperazine | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| N-Aminoethylpiperazine | Dermal | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 29 days |
| N-Aminoethylpiperazine | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | NOAEL 0.2 mg/m3 | 13 weeks |
| N-Aminoethylpiperazine | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 53.8 mg/m3 | 13 weeks |
| N-Aminoethylpiperazine | Inhalation | eyes | Not classified | Rat | NOAEL 53.8 mg/m3 | 13 weeks |
| N-Aminoethylpiperazine | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 53.8 mg/m3 | 13 weeks |
| N-Aminoethylpiperazine | Ingestion | heart | Not classified | Rat | NOAEL 598 mg/kg/day | 28 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| N-Aminoethylpiperazine | Ingestion | endocrine system | Not classified | Rat | NOAEL 598 mg/kg/day | 28 days |
| N-Aminoethylpiperazine | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 598 mg/kg/day | 28 days |
| N-Aminoethylpiperazine | Ingestion | liver | Not classified | Rat | NOAEL 598 mg/kg/day | 28 days |
| N-Aminoethylpiperazine | Ingestion | nervous system | Not classified | Rat | NOAEL 598 mg/kg/day | 28 days |
| N-Aminoethylpiperazine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 598 mg/kg/day | 28 days |
| Talc | Inhalation | pneumoconiosis | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis | Not classified | Rat | NOAEL 18 mg/m3 | 113 weeks |
| Talc | Inhalation | respiratory system | Not classified | Rat | NOAEL 18 mg/m3 | 113 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.005 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | heart | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | skin | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | endocrine system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | gastrointestinal tract | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | liver | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | immune system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | muscles | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | nervous system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | eyes | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Inhalation | vascular system | Not classified | Rat | NOAEL 0.03 mg/l | 13 weeks |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | endocrine system | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 28 days |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | heart | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | liver | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | immune system | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| M-Xylene-.Alpha.Alpha'.-Diamine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 28 days |
| P-Tert-Butylphenol | Ingestion | endocrine system | Not classified | Rat | NOAEL 600 mg/kg/day | 2 generation |
| P-Tert-Butylphenol | Ingestion | liver | Not classified | Rat | NOAEL 600 mg/kg/day | 2 generation |
| P-Tert-Butylphenol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 600 mg/kg/day | 2 generation |
| P-Tert-Butylphenol | Ingestion | blood | Not classified | Rat | NOAEL 200 mg/kg | 6 weeks |
| 1,2-Ethanediamine, N1-[3- | Dermal | skin | Not classified | Rat | NOAEL | 11 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| (Trimethoxysilyl)propyl]- | | | | | 1,545 mg/kg/day | |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Dermal | endocrine system | Not classified | Rat | NOAEL 1,545 mg/kg/day | 11 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Dermal | hematopoietic system | Not classified | Rat | NOAEL 1,545 mg/kg/day | 11 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Dermal | kidney and/or bladder | Not classified | Rat | NOAEL 1,545 mg/kg/day | 11 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Inhalation | respiratory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.015 mg/l | 90 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Inhalation | hematopoietic system | Not classified | Rat | NOAEL 0.044 mg/l | 90 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Inhalation | eyes | Not classified | Rat | NOAEL 0.044 mg/l | 90 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Inhalation | kidney and/or bladder | Not classified | Rat | NOAEL 0.044 mg/l | 90 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| 1,2-Ethanediamine, N1-[3-(Trimethoxysilyl)propyl]- | Ingestion | nervous system | Not classified | Rat | NOAEL 500 mg/kg/day | 28 days |
| Trimethylhexamethylenediamine | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 180 mg/kg/day | 13 weeks |
| Trimethylhexamethylenediamine | Ingestion | liver | Not classified | Rat | NOAEL 180 mg/kg/day | 13 weeks |
| White Mineral Oil (Petroleum) | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,381 mg/kg/day | 90 days |
| White Mineral Oil (Petroleum) | Ingestion | liver | Not classified | Rat | NOAEL 1,336 mg/kg/day | 90 days |
| White Mineral Oil (Petroleum) | Ingestion | immune system | Not classified | Rat | NOAEL 1,336 mg/kg/day | 90 days |
| 1,2-ETHANEDIAMINE, N,N'-BIS[3-(TRIMETHOXYSILYL)PROPYL]- | Inhalation | respiratory system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 0.015 mg/l | 90 days |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | hematopoietic system | Not classified | Rabbit | NOAEL 5,000 mg/kg/day | 3 weeks |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | liver | Not classified | Rabbit | NOAEL 5,000 mg/kg/day | 3 weeks |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | Dermal | kidney and/or bladder | Not classified | Rabbit | NOAEL 5,000 mg/kg/day | 3 weeks |

**Aspiration Hazard**

| Name | Value |
|---|---|
| White Mineral Oil (Petroleum) | Aspiration hazard |
| Distillates, Petroleum, Solvent-Refined Light Paraffinic | 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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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):** D032 (Hexachlorobenzene)

## 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
Contact 3M for more information.

**EPCRA 311/312 Hazard Classifications:**

| **Physical Hazards** |
|---|
| Not Applicable. |

| **Health Hazards** |
|---|
| Hazard Not Otherwise Classified (HNOC) |
| Reproductive toxicity |
| Respiratory or Skin Sensitization |
| Serious eye damage or eye irritation |
| Skin Corrosion or Irritation |
| 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 China "Measures on Environmental Management of New Chemical Substance". 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.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

**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:** 3 **Flammability:** 1 **Instability:** 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:** *3 **Flammability:** 1 **Physical Hazard:** 0 **Personal Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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