# Safety Data Sheet



| | | | |
|---|---|---|---|
| **Document Group:** | 18-5647-5 | **Version Number:** | 4.02 |
| **Issue Date:** | 10/26/23 | **Supercedes Date:** | 12/30/15 |

**Product identifier**
3M™ Scotch-Weld™ Polyurethane Sealant DP5001 Black

**ID Number(s):**

62-3528-3530-0, 62-3528-5032-5, 62-3528-5033-3, 62-3528-5037-4, 62-3528-5039-0

7000121309, 7100028818, 7010412255, 7100148759

**Recommended use**
Structural adhesive

**Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Industrial Adhesives and Tapes 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:**

18-5911-5, 18-5909-9

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

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

**3M USA SDSs are available at www.3M.com**

# Safety Data Sheet



| | | | |
|---|---|---|---|
| **Document Group:** | 18-5909-9 | **Version Number:** | 6.01 |
| **Issue Date:** | 05/05/22 | **Supercedes Date:** | 05/21/18 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Polyurethane Sealant DP5001 Black, Part B

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

**Recommended use**
Structural adhesive

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Industrial Adhesives and Tapes 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 2A.
Specific Target Organ Toxicity (repeated exposure): Category 1.

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

**Symbols**
Exclamation mark | Health Hazard |

**Pictograms**

**Hazard Statements**

Causes serious eye irritation.

Causes damage to organs through prolonged or repeated exposure:
liver |

May cause damage to organs through prolonged or repeated exposure:
endocrine system |

**Precautionary Statements**

**Prevention:**
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear eye/face protection.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.

**Response:**
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: Get medical advice/attention.
Get medical advice/attention if you feel unwell.

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

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Polyether Polyol | 9082-00-2 | 60 - 90 Trade Secret * |
| Diethyltoluenediamine | 68479-98-1 | < 25 Trade Secret * |
| Amorphous Silica | 67762-90-7 | 1 - 10 Trade Secret * |
| Castor Oil | 8001-79-4 | 1 - 10 Trade Secret * |
| Bismuth Trineodecanoate | 34364-26-6 | 0.1 - 1.5 Trade Secret * |

*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:**
Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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 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**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Oxides of Nitrogen | 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**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 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 release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

**7.2. Conditions for safe storage including any incompatibilities**
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 |
|---|---|---|---|---|
| SILICA, AMORPHOUS | | OSHA | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 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**
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

**Respiratory protection**
None required.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Liquid |
| **Color** | Amber |
| **Specific Physical Form:** | Viscous |
| **Odor** | Polyether |
| **Odor threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point** | *No Data Available* |
| **Boiling Point** | >=410 ºF |

| | |
|---|---|
| **Flash Point** | >=290 ºF [*Test Method:*Tagliabue Closed Cup] |
| **Evaporation rate** | <=1 [*Ref Std:*WATER=1] |
| **Flammability (solid, gas)** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapor Pressure** | *Not Applicable* |
| **Vapor Density** | >=1 [*Ref Std:*AIR=1] |
| **Density** | 1.03 g/ml |
| **Specific Gravity** | 1.03 |
| **Solubility in Water** | Negligible |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *Not Applicable* |
| **Decomposition temperature** | *No Data Available* |
| **Viscosity** | 2,100 - 3,300 centipoise |
| **Hazardous Air Pollutants** | 0 % weight [*Test Method:*Calculated] |
| **VOC Less H2O & Exempt Solvents** | 1 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A] |
| **VOC Less H2O & Exempt Solvents** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*as supplied] |
| **VOC Less H2O & Exempt Solvents** | 0.1 % [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A] |

## 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**
Not determined

**10.5. Incompatible materials**
Strong acids
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:**
No health effects are expected.

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

**Eye Contact:**
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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

May cause additional health effects (see below).

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**
Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Endocrine Effects: Signs/symptoms may include disruption of gonadal, thyroid, adrenal, or pancreatic function; changes in hormone production; alterations in circulating hormone levels; and/or changes in tissue response to hormones.

**Additional Information:**
Increased numbers of tumors in the liver, thyroid, and possibly the mammary glands were observed in rats given DETDA (CAS No. 68479-98-1) in their diet for two years.

**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 >5,000 mg/kg |
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Polyether Polyol | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Polyether Polyol | Ingestion | Rat | LD50 > 10,000 mg/kg |
| Diethyltoluenediamine | Dermal | Rat | LD50 > 2,000 mg/kg |
| Diethyltoluenediamine | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.61 mg/l |
| Diethyltoluenediamine | Ingestion | Rat | LD50 472 mg/kg |
| Castor Oil | Dermal | | LD50 estimated to be > 5,000 |
| Castor Oil | Ingestion | | LD50 estimated to be > 5,000 |
| Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous Silica | Inhalation-Dust/Mist | Rat | LC50 > 0.691 mg/l |

| | | | |
|---|---|---|---|
| | (4 hours) | | |
| Amorphous Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Diethyltoluenediamine | Rabbit | No significant irritation |
| Castor Oil | Human | Minimal irritation |
| Amorphous Silica | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Diethyltoluenediamine | Rabbit | Severe irritant |
| Castor Oil | Rabbit | Mild irritant |
| Amorphous Silica | Rabbit | No significant irritation |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Diethyltoluenediamine | Human | Not classified |
| Castor Oil | Human | Not classified |
| Amorphous Silica | Human and animal | 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 |
|---|---|---|
| Diethyltoluenediamine | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Diethyltoluenediamine | In vivo | Some positive data exist, but the data are not sufficient for classification |
| Castor Oil | In Vitro | Not mutagenic |
| Castor Oil | In vivo | Not mutagenic |
| Amorphous Silica | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| Diethyltoluenediamine | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| Amorphous Silica | Not Specified | 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 |
|---|---|---|---|---|---|
| Amorphous Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Amorphous Silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**
For the component/components, either no data are currently available or the data are not sufficient for classification.

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Diethyltoluenediamine | Ingestion | liver | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.4 mg/kg/day | 24 months |
| Diethyltoluenediamine | Ingestion | endocrine system | May cause damage to organs though prolonged or repeated exposure | Rat | NOAEL 1.4 mg/kg/day | 24 months |
| Diethyltoluenediamine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 2.8 mg/kg/day | 24 months |
| Diethyltoluenediamine | Ingestion | eyes | Not classified | Rat | NOAEL 1.4 mg/kg/day | 24 months |
| Diethyltoluenediamine | Ingestion | heart \| skin \| bone, teeth, nails, and/or hair \| hematopoietic system \| immune system \| muscles \| nervous system \| respiratory system | Not classified | Rat | NOAEL 3.5 mg/kg/day | 24 months |
| Castor Oil | Ingestion | heart \| hematopoietic system \| liver | Not classified | Rat | NOAEL 4,800 mg/kg/day | 13 weeks |
| Castor Oil | Ingestion | kidney and/or bladder | Not classified | Mouse | NOAEL 13,000 mg/kg/day | 13 weeks |
| Amorphous Silica | Inhalation | respiratory system \| silicosis | Not classified | Human | NOAEL Not available | occupational exposure |

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

**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):** 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** |
|---|
| Serious eye damage or eye 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 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.

| | | | |
|---|---|---|---|
| **Document Group:** | 18-5909-9 | **Version Number:** | 6.01 |
| **Issue Date:** | 05/05/22 | **Supercedes Date:** | 05/21/18 |

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

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

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

**3M USA SDSs are available at www.3M.com**

# Safety Data Sheet



| | | | |
|---|---|---|---|
| **Document Group:** | 18-5911-5 | **Version Number:** | 8.01 |
| **Issue Date:** | 05/05/22 | **Supercedes Date:** | 01/30/20 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Polyurethane Sealant DP5001 Black, Part A

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

**Recommended use**
Structural adhesive

**1.3. Supplier's details**

| | |
|---|---|
| **MANUFACTURER:** | 3M |
| **DIVISION:** | Industrial Adhesives and Tapes 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 2A.
Skin Corrosion/Irritation: Category 2.
Respiratory Sensitizer: Category 1.
Skin Sensitizer: Category 1.
Specific Target Organ Toxicity (single exposure): Category 3.
Specific Target Organ Toxicity (repeated exposure): Category 1.

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

**Symbols**
Exclamation mark | Health Hazard |

**Pictograms**

**Hazard Statements**
Causes serious eye irritation.
Causes skin irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.

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

**Precautionary Statements**

**Prevention:**
Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
In case of inadequate ventilation wear respiratory protection.
Wear protective gloves and eye/face protection.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

**Response:**
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
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: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Get medical advice/attention if you feel unwell.

**Storage:**
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

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

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

22% of the mixture consists of ingredients of unknown acute inhalation toxicity.

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Polyurethane Prepolymer | 67837-35-8 | 50 - 80 Trade Secret * |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | 5124-30-1 | 15 - 24 Trade Secret * |

| | | |
|---|---|---|
| 1,1'-Methylenebis(isocyanatobenzene) | 26447-40-5 | 1 - 9 Trade Secret * |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | 39310-05-9 | 1 - 5 Trade Secret * |
| Polypropylene Glycol Glycerol Triether | 25791-96-2 | 1 - 5 Trade Secret * |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | 24801-88-5 | 0.5 - 1.5 Trade Secret * |
| Carbon Black | 1333-86-4 | 0.1 - 0.5 Trade Secret * |
| Chromium Compound 1 | 71701-12-7 | < 0.25 Trade Secret * |
| Chromium Compound 2 | 74421-71-9 | < 0.1 Trade Secret * |
| Chromium Compound 3 | 71839-90-2 | < 0.1 Trade Secret * |

*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:**
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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**

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). 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**
None inherent in this product.

**Hazardous Decomposition or By-Products**

| Substance | Condition |
|---|---|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | During Combustion |
| Hydrogen Cyanide | During Combustion |
| Oxides of Nitrogen | During Combustion |
| Toxic Vapor, Gas, Particulate | 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**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. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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 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.

**7.2. Conditions for safe storage including any incompatibilities**
Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from strong bases.

## 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 |
|---|---|---|---|---|
| Carbon Black | 1333-86-4 | ACGIH | TWA(inhalable fraction):3 mg/m3 | A3: Confirmed animal carcin. |
| Carbon Black | 1333-86-4 | OSHA | TWA:3.5 mg/m3 | |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | 5124-30-1 | ACGIH | TWA:0.005 ppm | |
| CHROMIUM (III) COMPOUNDS | 71701-12-7 | ACGIH | TWA(as Cr(III), inhalable fraction):0.003 mg/m3;TWA(as Cr):0.5 mg/m3 | A4: Not class. as human carcin |
| CHROMIUM (III) | 71701-12-7 | OSHA | TWA(as Cr):0.5 mg/m3 | |

| | | | | |
|---|---|---|---|---|
| COMPOUNDS | | | | |
| CHROMIUM (III) COMPOUNDS | 71839-90-2 | ACGIH | TWA(as Cr(III), inhalable fraction):0.003 mg/m3;TWA(as Cr):0.5 mg/m3 | A4: Not class. as human carcin |
| CHROMIUM (III) COMPOUNDS | 71839-90-2 | OSHA | TWA(as Cr):0.5 mg/m3 | |
| CHROMIUM (III) COMPOUNDS | 74421-71-9 | ACGIH | TWA(as Cr(III), inhalable fraction):0.003 mg/m3;TWA(as Cr):0.5 mg/m3 | A4: Not class. as human carcin |
| CHROMIUM (III) COMPOUNDS | 74421-71-9 | OSHA | TWA(as Cr):0.5 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**
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

**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

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**

| | |
|---|---|
| **Appearance** | |
| **Physical state** | Liquid |
| **Color** | Black |
| **Specific Physical Form:** | Viscous |
| **Odor** | Low Odor |
| **Odor threshold** | *No Data Available* |
| **pH** | *Not Applicable* |
| **Melting point** | *No Data Available* |
| **Boiling Point** | >=400 ºF |
| **Flash Point** | >=290 ºF [*Test Method:*Tagliabue Closed Cup] |
| **Evaporation rate** | <=1 [*Details:*Gels with exposure to humidity.] |
| **Flammability (solid, gas)** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapor Pressure** | <=0.000004 mmHg [@ 68 ºF] |
| **Vapor Density** | >=1 [*Ref Std:*AIR=1] |
| **Density** | 1.04 g/ml |
| **Specific Gravity** | 1.04 |
| **Solubility in Water** | Negligible |
| **Solubility- non-water** | *No Data Available* |
| **Partition coefficient: n-octanol/ water** | *No Data Available* |
| **Autoignition temperature** | *Not Applicable* |
| **Decomposition temperature** | *No Data Available* |
| **Viscosity** | 2,500 - 4,500 centipoise |
| **Hazardous Air Pollutants** | <= 10 % weight [*Test Method:*Calculated] |
| **VOC Less H2O & Exempt Solvents** | 1 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part B] |
| **VOC Less H2O & Exempt Solvents** | 2 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*as supplied] |
| **VOC Less H2O & Exempt Solvents** | 0.1 % [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part B] |

## 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**
Not determined

**10.5. Incompatible materials**
Water
Strong acids
Strong bases

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

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May cause additional health effects (see below).

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

**Eye Contact:**
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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

**Additional Health Effects:**

**Prolonged or repeated exposure may cause target organ effects:**
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.

**Carcinogenicity:**

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Carbon black | 1333-86-4 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

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

**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 >5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >20 - =50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Dermal | Rat | LD50 > 7,000 mg/kg |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.33 mg/l |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Ingestion | Rat | LD50 18,200 mg/kg |
| 1,1'-Methylenebis(isocyanatobenzene) | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 1,1'-Methylenebis(isocyanatobenzene) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| 1,1'-Methylenebis(isocyanatobenzene) | Ingestion | Rat | LD50 31,600 mg/kg |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Ingestion | Rat | LD50 31,600 mg/kg |
| Polypropylene Glycol Glycerol Triether | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polypropylene Glycol Glycerol Triether | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 50 mg/l |
| Polypropylene Glycol Glycerol Triether | Ingestion | Rat | LD50 4,600 mg/kg |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | Dermal | Rabbit | LD50 1,259 mg/kg |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | Inhalation-Vapor (4 hours) | Rat | LC50 0.36 mg/l |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | Ingestion | Rat | LD50 706 mg/kg |
| Carbon Black | Dermal | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black | Ingestion | Rat | LD50 > 8,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Rabbit | Irritant |
| 1,1'-Methylenebis(isocyanatobenzene) | official classification | Irritant |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | official classification | Irritant |
| Polypropylene Glycol Glycerol Triether | Rabbit | No significant irritation |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | Rabbit | Corrosive |
| Carbon Black | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Rabbit | Mild irritant |
| 1,1'-Methylenebis(isocyanatobenzene) | official classification | Severe irritant |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | official classification | Severe irritant |
| Polypropylene Glycol Glycerol Triether | Rabbit | Mild irritant |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | Rabbit | Corrosive |
| Carbon Black | Rabbit | No significant irritation |

### Skin Sensitization

| Name | Species | Value |
|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Human and animal | Sensitizing |
| 1,1'-Methylenebis(isocyanatobenzene) | official classification | Sensitizing |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | official classification | Sensitizing |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | similar compounds | Sensitizing |

### Respiratory Sensitization

| Name | Species | Value |
|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Professional judgement | Sensitizing |
| 1,1'-Methylenebis(isocyanatobenzene) | Human | Sensitizing |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Human | Sensitizing |
| Isocyanic acid, 3-(triethoxysilyl)propyl Ester | similar compounds | Sensitizing |

### Germ Cell Mutagenicity

| Name | Route | Value |
|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | In Vitro | Not mutagenic |
| 1,1'-Methylenebis(isocyanatobenzene) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black | In Vitro | Not mutagenic |
| Carbon Black | In vivo | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name | Route | Species | Value |
|---|---|---|---|
| 1,1'-Methylenebis(isocyanatobenzene) | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black | Dermal | Mouse | Not carcinogenic |
| Carbon Black | Ingestion | Mouse | Not carcinogenic |
| Carbon Black | Inhalation | Rat | Carcinogenic |

### Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Inhalation | Not classified for female reproduction | Rat | NOAEL 6 mg/m3 | premating into lactation |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Inhalation | Not classified for male reproduction | Rat | NOAEL 6 mg/m3 | 28 days |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Inhalation | Not classified for development | Rat | NOAEL 6 mg/m3 | during gestation |
| 1,1'-Methylenebis(isocyanatobenzene) | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |

| | | | | | |
|---|---|---|---|---|---|
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Inhalation | respiratory irritation | May cause respiratory irritation | Rat | NOAEL not available | |
| 1,1'-Methylenebis(isocyanatobenzene) | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Inhalation | respiratory system | Not classified | Rat | NOAEL 3 mg/m3 | 90 days |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | Inhalation | heart \| skin \| endocrine system \| gastrointestinal tract \| bone, teeth, nails, and/or hair \| hematopoietic system \| liver \| immune system \| muscles \| nervous system \| eyes \| kidney and/or bladder \| vascular system | Not classified | Rat | NOAEL 18 mg/m3 | 90 days |
| 1,1'-Methylenebis(isocyanatobenzene) | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| 1,1'-Methylenebis(isocyanatobenzene), homopolymer | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| Carbon Black | Inhalation | pneumoconiosis | Not classified | Human | NOAEL Not available | occupational exposure |

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

**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):** 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 |
| Skin Corrosion or Irritation |
| Specific target organ toxicity (single or repeated exposure) |

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| Ingredient | C.A.S. No | % by Wt |
|---|---|---|
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) | 5124-30-1 | Trade Secret 15 - 24 |
| Dicyclohexylmethane-4,4'-diisocyanate (HMDI) (DIISOCYANATES (CERTAIN CHEMICALS ONLY)) | 5124-30-1 | Trade Secret 15 - 24 |

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

## 15.3. Chemical Inventories
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.

| | | | |
|---|---|---|---|
| **Document Group:** | 18-5911-5 | **Version Number:** | 8.01 |
| **Issue Date:** | 05/05/22 | **Supercedes Date:** | 01/30/20 |

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

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

**3M USA SDSs are available at www.3M.com**