# Safety Data Sheet

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| | | | |
|---|---|---|---|
| **Document Group:** | 18-5699-6 | **Version Number:** | 2.09 |
| **Issue Date:** | 09/25/26 | **Supersedes Date:** | 07/13/26 |

**Product identifier**
3M™ Scotch-Weld™ Urethane Adhesive DP601 Gray

| ID Number | UPC | ID Number | UPC |
|---|---|---|---|
| 62-2649-5031-2 | 0 00 21200 96410 7 | 62-2649-5033-8 | |
| 62-2649-5035-3 | | 62-2649-5040-3 | |

7010329533, 7010367268, 7100148741, 7010412245

**Recommended use**
Industrial use

**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:**

18-5864-6, 18-5863-8

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# Safety Data Sheet

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| | | | |
|---|---|---|---|
| **Document Group:** | 18-5863-8 | **Version Number:** | 7.09 |
| **Issue Date:** | 09/25/26 | **Supersedes Date:** | 07/13/26 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Urethane Adhesive DP601 Gray and Urethane Adhesive 601 Gray, Part B

**Product Identification Numbers**
62-2649-8530-0, 62-2649-9530-9
7010329534

**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 Sensitizer: Category 1.
Reproductive Toxicity: Category 2.

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

**Symbols**
Exclamation mark |Health Hazard |

**Pictograms**



**Hazard Statements**

Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.

**Precautionary statements**

**Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye protection.

**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 exposed or concerned: Get medical attention.
If eye irritation persists or 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.

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

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| Polyether Polyol | 9082-00-2 | 40 - 70 |
| Tetrakis(2-hydroxypropyl)ethylenediamine | 102-60-3 | 10 - 30 Trade Secret * |
| Polyol (NJTS Reg. No. 04466600-7463) | Trade Secret* | 10 - 30 |
| Amorphous Silica | 68611-44-9 | 1 - 5 |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | 41556-26-7 | 0.1 - 1 Trade Secret * |
| m-Xylene-.alpha.alpha'.-diamine | 1477-55-0 | 0.1 - 1 Trade Secret * |
| Polymeric Benzotriazole | 104810-48-2 | 0.1 - 1 Trade Secret * |
| Polymeric Benzotriazole II | 104810-47-1 | 0.1 - 1 Trade Secret * |
| Titanium Dioxide | 13463-67-7 | 0.1 - 1 Trade Secret * |
| Substituted Piperydinyl Sebacate | 82919-37-7 | <= 0.3 |
| N,N'-Ethylenebis-12-Hydroxystearamide | 123-26-2 | <= 0.2 |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

*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**

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 |
| 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. 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**
For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. 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.) Use personal protective equipment (gloves, respirators, etc.) as required.

**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 |
|---|---|---|---|---|
| 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 | |
| m-Xylene-.alpha.alpha'.-diamine | 1477-55-0 | ACGIH | CEIL:0.018 ppm | Danger of cutaneous absorption |
| Silica: Amorphous, including natural diatomaceous earth | 68611-44-9 | 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:
Safety Glasses with side shields
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.

**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 |
| **Specific Physical Form:** | Viscous |
| **Color** | Gray |
| **Odor** | Slight Ammoniacal |
| **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 [*Ref Std:*WATER=1] |
| **Flammability** | Not Applicable |

| | |
|---|---|
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |
| **Vapor Pressure** | *Not Applicable* |
| **Relative Vapor Density** | >=1 [*Ref Std:*AIR=1] |
| **Density** | 1.04 g/ml |
| **Relative Density** | 1.04 [*Ref Std:*WATER=1] |
| **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* |
| **Kinematic Viscosity** | 3,846 mm2/sec |
| **Hazardous Air Pollutants** | 0 % weight [*Test Method:*Calculated] |
| **Molecular weight** | *No Data Available* |
| **VOC Less H2O & Exempt Solvents** | 0 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 % [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part A] |
| **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 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:**
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Skin Contact:**
Contact with the skin during product use is not expected to result in significant irritation. 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.
May cause additional health effects (see below).

**Additional Health Effects:**

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

**Carcinogenicity:**

| Ingredient | CAS No. | Class Description | Regulation |
|---|---|---|---|
| Titanium dioxide | 13463-67-7 | Grp. 2B: Possible 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 | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| Polyether Polyol | Dermal | similar compounds | LD50 > 2,000 mg/kg |
| Polyether Polyol | Inhalation-Dust/Mist (4 hours) | similar compounds | LC50 > 3.2 mg/l |
| Polyether Polyol | Ingestion | similar compounds | LD50 > 5,000 mg/kg |
| Polyol (NJTS Reg. No. 04466600-7463) | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polyol (NJTS Reg. No. 04466600-7463) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 50 mg/l |
| Polyol (NJTS Reg. No. 04466600-7463) | Ingestion | Rat | LD50 4,600 mg/kg |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Dermal | Rat | LD50 > 2,000 mg/kg |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | Rat | LD50 2,890 mg/kg |

| | | | |
|---|---|---|---|
| Amorphous Silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Amorphous Silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Amorphous Silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| m-Xylene-.alpha.alpha'.-diamine | Dermal | Rabbit | LD50 > 2,000 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 |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | Rat | LD50 3,125 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 |
| Polymeric Benzotriazole | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polymeric Benzotriazole | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.8 mg/l |
| Polymeric Benzotriazole | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Polymeric Benzotriazole II | Dermal | Rat | LD50 > 2,000 mg/kg |
| Polymeric Benzotriazole II | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.8 mg/l |
| Polymeric Benzotriazole II | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Substituted Piperydinyl Sebacate | Dermal | Professional judgement | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Substituted Piperydinyl Sebacate | Ingestion | Rat | LD50 3,125 mg/kg |
| N,N'-Ethylenebis-12-Hydroxystearamide | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 5.05 mg/l |
| N,N'-Ethylenebis-12-Hydroxystearamide | Ingestion | Rat | LD50 > 2,000 mg/kg |
| N,N'-Ethylenebis-12-Hydroxystearamide | Dermal | similar health hazards | LD50 Not available |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| Polyether Polyol | similar compounds | Minimal irritation |
| Polyol (NJTS Reg. No. 04466600-7463) | Rabbit | No significant irritation |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Rabbit | No significant irritation |
| Amorphous Silica | Rabbit | No significant irritation |
| m-Xylene-.alpha.alpha'.-diamine | Rat | Corrosive |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Rabbit | Minimal irritation |
| Titanium Dioxide | Rabbit | No significant irritation |
| Polymeric Benzotriazole | Rabbit | No significant irritation |
| Polymeric Benzotriazole II | Rabbit | No significant irritation |
| Substituted Piperydinyl Sebacate | Rabbit | Minimal irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| Polyether Polyol | similar compoun | Mild irritant |

| | | |
|---|---|---|
| | ds | |
| Polyol (NJTS Reg. No. 04466600-7463) | Rabbit | Mild irritant |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Rabbit | Severe irritant |
| Amorphous Silica | Rabbit | No significant irritation |
| m-Xylene-.alpha.alpha'.-diamine | Rabbit | Corrosive |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Rabbit | Mild irritant |
| Titanium Dioxide | Rabbit | No significant irritation |
| Polymeric Benzotriazole | Rabbit | No significant irritation |
| Polymeric Benzotriazole II | Rabbit | No significant irritation |
| Substituted Piperydinyl Sebacate | Rabbit | Mild irritant |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| Polyether Polyol | similar compounds | Not classified |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Guinea pig | Not classified |
| Amorphous Silica | Human and animal | Not classified |
| m-Xylene-.alpha.alpha'.-diamine | Guinea pig | Sensitizing |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Guinea pig | Sensitizing |
| Titanium Dioxide | Human and animal | Not classified |
| Polymeric Benzotriazole | Guinea pig | Sensitizing |
| Polymeric Benzotriazole II | Guinea pig | Sensitizing |
| Substituted Piperydinyl Sebacate | Guinea pig | Sensitizing |
| N,N'-Ethylenebis-12-Hydroxystearamide | Guinea pig | Sensitizing |

**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 |
|---|---|---|
| Polyether Polyol | In Vitro | Not mutagenic |
| Tetrakis(2-hydroxypropyl)ethylenediamine | In Vitro | Not mutagenic |
| Amorphous Silica | In Vitro | Not mutagenic |
| m-Xylene-.alpha.alpha'.-diamine | In Vitro | Not mutagenic |
| m-Xylene-.alpha.alpha'.-diamine | In vivo | Not mutagenic |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | In vivo | Not mutagenic |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide | In Vitro | Not mutagenic |
| Titanium Dioxide | In vivo | Not mutagenic |
| Polymeric Benzotriazole | In Vitro | Not mutagenic |
| Polymeric Benzotriazole | In vivo | Not mutagenic |
| Polymeric Benzotriazole II | In Vitro | Not mutagenic |
| Polymeric Benzotriazole II | In vivo | Not mutagenic |
| Substituted Piperydinyl Sebacate | In vivo | Not mutagenic |
| Substituted Piperydinyl Sebacate | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

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

| | | | |
|---|---|---|---|
| Amorphous Silica | Not Specified | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Titanium Dioxide | Ingestion | Multiple animal species | Not carcinogenic |
| Titanium Dioxide | Inhalation | Rat | Carcinogenic |

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | premating into lactation |
| 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 |
| 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 |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | Not classified for development | Rat | NOAEL 209 mg/kg/day | premating into lactation |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | Toxic to female reproduction | Rat | NOAEL 804 mg/kg/day | premating into lactation |
| Polymeric Benzotriazole | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Polymeric Benzotriazole | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 115 days |
| Polymeric Benzotriazole | Ingestion | Not classified for development | Rat | NOAEL 2 mg/kg/day | premating into lactation |
| Polymeric Benzotriazole II | Ingestion | Not classified for female reproduction | Rat | NOAEL 100 mg/kg/day | premating into lactation |
| Polymeric Benzotriazole II | Ingestion | Not classified for male reproduction | Rat | NOAEL 100 mg/kg/day | 115 days |
| Polymeric Benzotriazole II | Ingestion | Not classified for development | Rat | NOAEL 2 mg/kg/day | premating into lactation |
| Substituted Piperydinyl Sebacate | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | Not classified for development | Rat | NOAEL 209 mg/kg/day | premating into lactation |
| Substituted Piperydinyl Sebacate | Ingestion | Toxic to female reproduction | Rat | NOAEL 804 mg/kg/day | premating into lactation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Tetrakis(2-hydroxypropyl)ethylenediamine | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Positive | |

| | | | | | | |
|---|---|---|---|---|---|---|
| m-Xylene-.alpha.alpha'.-diamine | Inhalation | respiratory irritation | May cause respiratory irritation | similar health hazards | NOAEL Not avaliable | |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | heart | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | skin | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | bone, teeth, nails, and/or hair | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | immune system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | muscles | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | respiratory system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Tetrakis(2-hydroxypropyl)ethylenediamine | Ingestion | vascular system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 30 days |
| Amorphous Silica | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Amorphous Silica | Inhalation | silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| 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 |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 28 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | liver | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | immune system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | heart | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | nervous system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 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 |
| Polymeric Benzotriazole | Ingestion | liver | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole | Ingestion | endocrine system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole | Ingestion | eyes | Not classified | Rat | NOAEL 50 | 90 days |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | mg/kg/day | |
| Polymeric Benzotriazole | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole | Ingestion | respiratory system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole II | Ingestion | liver | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole II | Ingestion | endocrine system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole II | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole II | Ingestion | eyes | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole II | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Polymeric Benzotriazole II | Ingestion | respiratory system | Not classified | Rat | NOAEL 50 mg/kg/day | 90 days |
| Substituted Piperydinyl Sebacate | Ingestion | eyes | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 300 mg/kg/day | 28 days |
| Substituted Piperydinyl Sebacate | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | liver | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | immune system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | heart | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | endocrine system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | hematopoietic system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | nervous system | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |
| Substituted Piperydinyl Sebacate | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 1,493 mg/kg/day | 29 days |

**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. 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** |
|---|
| Reproductive toxicity |
| 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 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:** 1 **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:** | 18-5863-8 | **Version Number:** | 7.09 |
| **Issue Date:** | 09/25/26 | **Supersedes Date:** | 07/13/26 |

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# Safety Data Sheet

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| | | | |
|---|---|---|---|
| **Document Group:** | 18-5864-6 | **Version Number:** | 8.03 |
| **Issue Date:** | 07/13/26 | **Supersedes Date:** | 10/07/22 |

## SECTION 1: Identification

**1.1. Product identifier**
3M™ Scotch-Weld™ Urethane Adhesive DP601 Gray and Urethane Adhesive 601 Gray, Part A

**Product Identification Numbers**
62-2749-8530-8, 62-2749-9530-7
7010309749

**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**
Skin Corrosion/Irritation: Category 2.
Serious Eye Damage/Irritation: Category 2A.
Respiratory Sensitizer: Category 1.
Skin Sensitizer: Category 1.
Specific Target Organ Toxicity (repeated exposure): Category 1.
Specific Target Organ Toxicity (single exposure): Category 3.

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

**Symbols**
Exclamation mark |Health Hazard |

**Pictograms**



**Hazard Statements**

Causes skin irritation.
Causes serious eye 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 vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye protection.
In case of inadequate ventilation wear respiratory protection.

**Response:**
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
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.
Get medical attention if you feel unwell.
If experiencing respiratory symptoms or if skin irritation or rash occurs: Call a POISON CENTER or doctor.
If experiencing respiratory symptoms or if eye irritation persists: Call a POISON CENTER or doctor.
Take off contaminated clothing and wash it before reuse.

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

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

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

## SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|---|---|---|
| 4,4'-diphenylmethane diisocyanate | 101-68-8 | 30 - 60 Trade Secret * |
| diphenylmethanediisocyanate prepolymer | 68424-09-9 | 15 - 40 |
| poly(diphenylmethane-4,4'-diisocyanate) | 25686-28-6 | 15 - 40 Trade Secret * |

| | | |
|---|---|---|
| amorphous silica | 67762-90-7 | 1 - 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. 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 |
|---|---|
| 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. 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. 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**

For industrial/occupational use only. Not for consumer sale or use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. 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 |
|---|---|---|---|---|
| 4,4'-diphenylmethane diisocyanate | 101-68-8 | OSHA | CEIL:0.2 mg/m3(0.02 ppm) | |
| Silica: Amorphous, including natural diatomaceous earth | 67762-90-7 | 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:
Safety Glasses with side shields
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.

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

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.

**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**

| | |
|---|---|
| **Physical state** | Liquid |
| **Specific Physical Form:** | Viscous |
| **Color** | Milky White |
| **Odor** | Mild Isocyanate |
| **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** | Not Applicable |
| **Flammable Limits(LEL)** | *Not Applicable* |
| **Flammable Limits(UEL)** | *Not Applicable* |

| | |
|---|---|
| **Vapor Pressure** | <=0.000004 mmHg [@ 68 ºF] |
| **Relative Vapor Density** | >=1 [*Ref Std:*AIR=1] |
| **Density** | 1.11 g/ml |
| **Relative Density** | 1.11 [*Ref Std:*WATER=1] |
| **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* |
| **Kinematic Viscosity** | 1,802 mm2/sec |
| **Hazardous Air Pollutants** | < 60 % weight [*Test Method:*Calculated] |
| **Molecular weight** | *No Data Available* |
| **VOC Less H2O & Exempt Solvents** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part B] |
| **VOC Less H2O & Exempt Solvents** | 0 % [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*when used as intended with Part B] |
| **VOC Less H2O & Exempt Solvents** | 0 g/l [*Test Method:*calculated SCAQMD rule 443.1] [*Details:*as supplied] |
| **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 is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

**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:**
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.

**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 | Inhalation-Vapor(4 hr) | | No data available; calculated ATE >50 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE >5,000 mg/kg |
| 4,4'-diphenylmethane diisocyanate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| 4,4'-diphenylmethane diisocyanate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| 4,4'-diphenylmethane diisocyanate | Ingestion | Rat | LD50 31,600 mg/kg |
| poly(diphenylmethane-4,4'-diisocyanate) | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| poly(diphenylmethane-4,4'-diisocyanate) | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| poly(diphenylmethane-4,4'-diisocyanate) | Ingestion | Rat | LD50 31,600 mg/kg |
| amorphous silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| amorphous silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| amorphous silica | Ingestion | Rat | LD50 > 5,110 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name | Species | Value |
|---|---|---|
| 4,4'-diphenylmethane diisocyanate | official classification | Irritant |
| poly(diphenylmethane-4,4'-diisocyanate) | official classification | Irritant |
| amorphous silica | Rabbit | No significant irritation |

**Serious Eye Damage/Irritation**

| Name | Species | Value |
|---|---|---|
| 4,4'-diphenylmethane diisocyanate | official classification | Severe irritant |
| poly(diphenylmethane-4,4'-diisocyanate) | official classification | Severe irritant |
| amorphous silica | Rabbit | No significant irritation |

**Skin Sensitization**

| Name | Species | Value |
|---|---|---|
| 4,4'-diphenylmethane diisocyanate | Mouse | Sensitizing |
| poly(diphenylmethane-4,4'-diisocyanate) | Mouse | Sensitizing |
| amorphous silica | Human and animal | Not classified |

**Respiratory Sensitization**

| Name | Species | Value |
|---|---|---|
| 4,4'-diphenylmethane diisocyanate | Human | Sensitizing |
| poly(diphenylmethane-4,4'-diisocyanate) | Human | Sensitizing |

**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|---|---|
| 4,4'-diphenylmethane diisocyanate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| poly(diphenylmethane-4,4'-diisocyanate) | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| amorphous silica | In Vitro | Not mutagenic |

**Carcinogenicity**

| Name | Route | Species | Value |
|---|---|---|---|
| 4,4'-diphenylmethane diisocyanate | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| poly(diphenylmethane-4,4'-diisocyanate) | Inhalation | 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 |
|---|---|---|---|---|---|
| 4,4'-diphenylmethane diisocyanate | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |
| poly(diphenylmethane-4,4'-diisocyanate) | Inhalation | Not classified for development | Rat | NOAEL 0.004 | during |

| | | | | | |
|---|---|---|---|---|---|
| | | | | mg/l | organogenesis |
| 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**

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---|---|---|---|---|---|---|
| 4,4'-diphenylmethane diisocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| poly(diphenylmethane-4,4'-diisocyanate) | 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 |
|---|---|---|---|---|---|---|
| 4,4'-diphenylmethane diisocyanate | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| poly(diphenylmethane-4,4'-diisocyanate) | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| amorphous silica | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| amorphous silica | Inhalation | 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** |
|---|
| 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 |
|---|---|---|
| 4,4'-diphenylmethane diisocyanate | 101-68-8 | Trade Secret 30 - 60 |

### 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:** 1 **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:** | 18-5864-6 | **Version Number:** | 8.03 |
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