

Safety Data Sheet

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18-5864-6 **Version Number:** 8.00 **Document Group: Issue Date:** 08/16/16 **Supercedes Date:** 10/27/15

SECTION 1: Identification

1.1. Product identifier

3MTM Scotch-WeldTM Urethane Adhesive DP601 Gray and Urethane Adhesive 601 Gray, Part A

Product Identification Numbers

62-2749-8530-8, 62-2749-9530-7

1.2. Recommended use and restrictions on use

Recommended use

Structural adhesive

1.3. Supplier's details

MANUFACTURER:

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 |

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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:

Keep container tightly closed.

Store locked up in a well-ventilated place.

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

2.3. Hazards not otherwise classified

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 * |
| poly(diphenylmethane-4,4'-diisocyanate) | 25686-28-6 | 15 - 40 Trade Secret * |
| diphenylmethanediisocyanate prepolymer | 68424-09-9 | 15 - 40 Trade Secret * |

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| amorphous silica | 67762-90-7 | 1 - 5 Trade Secret * |
|------------------|------------|----------------------|
| amorphous sinea | 0110= 70 1 | 1 0 11460 500100 |

^{*}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

See Section 11.1. Information on toxicological effects.

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** Oxides of Nitrogen **During Combustion** Toxic Vapor, Gas, Particulate **During Combustion**

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

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.

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. 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) | |
| FREE ISOCYANATES | 101-68-8 | Manufacturer determined | TWA:0.005 ppm;STEL:0.02 ppm | |
| 4,4'-diphenylmethane diisocyanate | 101-68-8 | ACGIH | TWA:0.005 ppm | |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. | |

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

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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - Neoprene Apron - Nitrile

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

General Physical Form: Liquid Viscous **Specific Physical Form:**

Odor, Color, Grade: Low or no detectable odor, opaque.

Odor threshold No Data Available pН Not Applicable **Melting point** No Data Available

Boiling Point $>=400 \, {}^{\circ}F$

Flash Point >=290 °F [Test Method: Tagliabue Closed Cup] **Evaporation rate** <=1 [Details: Gels with exposure to humidity.]

Flammability (solid, gas) Not Applicable Not Applicable Flammable Limits(LEL) Not Applicable Flammable Limits(UEL)

<=0.000004 mmHg [@ 68 °F] Vapor Pressure

Vapor Density >=1 [*Ref Std:* AIR=1]

Density 1.11 g/ml

Specific Gravity 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

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Decomposition temperatureNo Data Available **Viscosity**1,250 - 2,750 centipoise

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]

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

<u>Substance</u> <u>Condition</u>

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

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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.

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

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|--------------------------------|----------|
| 4,4'-diphenylmethane diisocyanate | official classifica tion | Irritant |
| poly(diphenylmethane-4,4'-diisocyanate) | official classifica | Irritant |

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| | tion | |
|------------------|--------|---------------------------|
| amorphous silica | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

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

Skin Sensitization

| Name | Species | Value |
|---|------------|-----------------|
| 4,4'-diphenylmethane diisocyanate | official | Sensitizing |
| | classifica | |
| | tion | |
| poly(diphenylmethane-4,4'-diisocyanate) | official | Sensitizing |
| | classifica | |
| | tion | |
| amorphous silica | Human | Not sensitizing |
| | and | |
| | animal | |

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 |
| | Specified | | sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|---|------------|--|---------|------------------------|-----------------------------|
| 4,4'-diphenylmethane diisocyanate | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 0.004 mg/l | during organogenesi s |
| poly(diphenylmethane-4,4'-diisocyanate) | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 0.004 mg/l | during organogenesi s |
| amorphous silica | Ingestion | Not toxic to female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |

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| amorphous silica | Ingestion | Not toxic to male reproduction | Rat | NOAEL 497 | 1 generation |
|------------------|-----------|--------------------------------|-----|-------------|--------------|
| | | | | mg/kg/day | |
| amorphous silica | Ingestion | Not toxic to development | Rat | NOAEL 1,350 | during |
| | | _ | | mg/kg/day | organogenesi |
| | | | | | S |

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 classifica tion | NOAEL Not available | |
| poly(diphenylmethane-4,4'-diisocyanate) | Inhalation | respiratory irritation | May cause respiratory irritation | official classifica tion | 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 silicosis | All data are negative | 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.

311/312 Hazard Categories:

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

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

Ingredient
4,4'-diphenylmethane diisocyanate
(DIISOCYANATES (CERTAIN CHEMICALS
ONLY))

C.A.S. No
101-68-8
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.

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.

HMIS Hazard Classification

Health: *2 Flammability: 1 Physical Hazard: 1 Personal Protection: X - See PPE section.

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

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