



## Safety Data Sheet

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

#### 1.1. Product identifier

3M™ Scotch-Weld™ Multi-Material Composite Urethane Adhesive DP6310NS, Part A

#### Product Identification Numbers

62-3690-8530-3, 62-3690-9530-2  
7010415316, 7100143960

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Adhesive, Two part urethane adhesives

This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(13)) for consumer paint or coating removal

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 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.  
Reproductive Toxicity: Category 1B.  
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.

May damage fertility or the unborn child.

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

**Precautionary Statements****Prevention:**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe 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.

IF exposed or concerned: Get medical advice/attention.

**Storage:**

Keep container tightly closed.

Store locked up in a well-ventilated place.

**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.

**SECTION 3: Composition/information on ingredients**

| Ingredient  | C.A.S. No.    | % by Wt                |
|---|---------------|------------------------|
| p,p'-Methylenebis(phenyl isocyanate)              | 101-68-8      | 30 - 50 Trade Secret * |
| Urethane Prepolymer (NJTS Reg. No. 04499600-7413) | Trade Secret* | 20 - 40 Trade Secret * |
| Fillers (NJTS Reg. No. 04499600-7414)             | Trade Secret* | 10 - 30 Trade Secret * |
| 4,4'-Diisocyanatodiphenylmethane polymer          | 25686-28-6    | 1 - 20 Trade Secret *  |
| Talc  | 14807-96-6    | 1 - 10 Trade Secret *  |
| Treated Silica                                    | 68611-44-9    | 1 - 3 Trade Secret *   |
| Toluene   | 108-88-3      | < 1 Trade Secret *     |
| Methylene Chloride                                | 75-09-2       | < 0.01 Trade Secret *  |

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**

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**

DO NOT USE WATER In case of fire: Use a fire fighting agent suitable for water-reactives such as dry chemical to extinguish.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products****Substance**

Carbon monoxide

**Condition**

During Combustion

|                               |                   |
|-------------------------------|-------------------|
| Carbon dioxide                | During Combustion |
| Hydrogen Chloride             | 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

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 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. 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. Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from heat. 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 |
|--------------------------------------|------------|--------|---------------|---------------------|
| p,p'-Methylenebis(phenyl isocyanate) | 101-68-8   | ACGIH  | TWA:0.005 ppm |                     |

|                                       |              |       |  |   |
|---------------------------------------|--------------|-------|--|---|
| p,p'-Methylenebis(phenyl isocyanate)  | 101-68-8     | OSHA  | CEIL:0.2 mg/m <sup>3</sup> (0.02 ppm)  |   |
| Toluene                               | 108-88-3     | ACGIH | TWA:20 ppm   | A4: Not class. as human carcin, Ototoxicant |
| Toluene                               | 108-88-3     | OSHA  | TWA:200 ppm;CEIL:300 ppm   |   |
| Talc                                  | 14807-96-6   | ACGIH | TWA(respirable fraction):2 mg/m <sup>3</sup>   | A4: Not class. as human carcin              |
| Talc                                  | 14807-96-6   | OSHA  | TWA concentration(respirable):0.1 mg/m <sup>3</sup> (2.4 millions of particles/cu. ft.);TWA:20 millions of particles/cu. ft. |   |
| SILICA, AMORPHOUS                     | 68611-44-9   | OSHA  | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup>   |   |
| Methylene Chloride                    | 75-09-2      | ACGIH | TWA:50 ppm   | A3: Confirmed animal carcin.                |
| Methylene Chloride                    | 75-09-2      | OSHA  | TWA:25 ppm;STEL:125 ppm  | 29 CFR 1910.1052, SKIN                      |
| Fillers (NJTS Reg. No. 04499600-7414) | Trade Secret | ACGIH | TWA(respirable fraction):1 mg/m <sup>3</sup>   | A4: Not class. as human carcin              |

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

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 - 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

White

Specific Physical Form:

Viscous

Odor

Slight Isocyanate

Odor threshold

No Data Available

pH

Not Applicable

Melting point

No Data Available

Boiling Point

No Data Available

Flash Point

>=383 °F [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

<=0.010 mmHg [@ 77 °F]

Vapor Density

>=1 [Ref Std: AIR=1]

Density

1.288 g/ml

Specific Gravity

1.288 [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

Viscosity

1,000 - 2,200 centipoise

Hazardous Air Pollutants

<= 60 % weight [Test Method: Calculated]

Molecular weight

No Data Available

VOC Less H<sub>2</sub>O & Exempt Solvents

0 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: as supplied]

VOC Less H<sub>2</sub>O & Exempt Solvents

<=1 g/l [Test Method: calculated SCAQMD rule 443.1]

[Details: when used as intended with Part B]

VOC Less H<sub>2</sub>O & 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**

Heat

**10.5. Incompatible materials**

Water

Strong acids

Strong bases

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

**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.

May cause additional health effects (see below).

**Additional Health Effects:**

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

Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

### Carcinogenicity:

| Ingredient         | CAS No. | Class Description             | Regulation                                  |
|--------------------|---------|-------------------------------|---|
| Methylene Chloride | 75-09-2 | Grp. 2A: Probable human carc. | International Agency for Research on Cancer |
| Methylene Chloride | 75-09-2 | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |
| Methylene Chloride | 75-09-2 | Cancer hazard                 | OSHA Carcinogens                            |

### 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 |
| p,p'-Methylenebis(phenyl isocyanate)              | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| p,p'-Methylenebis(phenyl isocyanate)              | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| p,p'-Methylenebis(phenyl isocyanate)              | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| Urethane Prepolymer (NJTS Reg. No. 04499600-7413) | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Urethane Prepolymer (NJTS Reg. No. 04499600-7413) | Ingestion                      |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| 4,4'-Diisocyanatodiphenylmethane polymer          | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| 4,4'-Diisocyanatodiphenylmethane polymer          | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.368 mg/l                                |
| 4,4'-Diisocyanatodiphenylmethane polymer          | Ingestion                      | Rat     | LD50 31,600 mg/kg                              |
| Fillers (NJTS Reg. No. 04499600-7414)             | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                             |
| Fillers (NJTS Reg. No. 04499600-7414)             | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 4.57 mg/l                               |
| Fillers (NJTS Reg. No. 04499600-7414)             | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Talc  | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Talc  | Ingestion                      |         | LD50 estimated to be > 5,000 mg/kg             |
| Treated Silica                                    | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Treated Silica                                    | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| Treated Silica                                    | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| Toluene   | Dermal                         | Rat     | LD50 12,000 mg/kg                              |
| Toluene   | Inhalation-Vapor (4 hours)     | Rat     | LC50 30 mg/l                                   |
| Toluene   | Ingestion                      | Rat     | LD50 5,550 mg/kg                               |
| Methylene Chloride                                | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |
| Methylene Chloride                                | Inhalation-Vapor (4 hours)     | Rat     | LC50 63.7 mg/l                                 |



|                    |           |     |                  |
|--------------------|-----------|-----|------------------|
| Methylene Chloride | Ingestion | Rat | LD50 1,410 mg/kg |
|--------------------|-----------|-----|------------------|

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                     | Species                 | Value                     |
|--|-------------------------|---------------------------|
| p,p'-Methylenebis(phenyl isocyanate)     | official classification | Irritant                  |
| 4,4'-Diisocyanatodiphenylmethane polymer | official classification | Irritant                  |
| Fillers (NJTS Reg. No. 04499600-7414)    | Rabbit                  | No significant irritation |
| Talc                                     | Rabbit                  | No significant irritation |
| Treated Silica                           | Rabbit                  | No significant irritation |
| Toluene                                  | Rabbit                  | Irritant                  |
| Methylene Chloride                       | Rabbit                  | Irritant                  |

**Serious Eye Damage/Irritation**

| Name                                     | Species                 | Value                     |
|--|-------------------------|---------------------------|
| p,p'-Methylenebis(phenyl isocyanate)     | official classification | Severe irritant           |
| 4,4'-Diisocyanatodiphenylmethane polymer | official classification | Severe irritant           |
| Fillers (NJTS Reg. No. 04499600-7414)    | Rabbit                  | Mild irritant             |
| Talc                                     | Rabbit                  | No significant irritation |
| Treated Silica                           | Rabbit                  | No significant irritation |
| Toluene                                  | Rabbit                  | Moderate irritant         |
| Methylene Chloride                       | Rabbit                  | Severe irritant           |

**Skin Sensitization**

| Name                                     | Species                 | Value          |
|--|-------------------------|----------------|
| p,p'-Methylenebis(phenyl isocyanate)     | official classification | Sensitizing    |
| 4,4'-Diisocyanatodiphenylmethane polymer | official classification | Sensitizing    |
| Treated Silica                           | Human and animal        | Not classified |
| Toluene                                  | Guinea pig              | Not classified |

**Respiratory Sensitization**

| Name                                     | Species | Value          |
|--|---------|----------------|
| p,p'-Methylenebis(phenyl isocyanate)     | Human   | Sensitizing    |
| 4,4'-Diisocyanatodiphenylmethane polymer | Human   | Sensitizing    |
| Talc                                     | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name                                     | Route    | Value  |
|--|----------|--|
| p,p'-Methylenebis(phenyl isocyanate)     | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-Diisocyanatodiphenylmethane polymer | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Talc                                     | In Vitro | Not mutagenic  |
| Talc                                     | In vivo  | Not mutagenic  |

|                    |          |  |
|--------------------|----------|--|
| Treated Silica     | In Vitro | Not mutagenic  |
| Toluene            | In Vitro | Not mutagenic  |
| Toluene            | In vivo  | Not mutagenic  |
| Methylene Chloride | In vivo  | Not mutagenic  |
| Methylene Chloride | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                                     | Route         | Species                 | Value  |
|--|---------------|-------------------------|--|
| p,p'-Methylenebis(phenyl isocyanate)     | Inhalation    | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| 4,4'-Diisocyanatodiphenylmethane polymer | Inhalation    | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Talc                                     | Inhalation    | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Treated Silica                           | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                  | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                  | Ingestion     | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| Toluene                                  | Inhalation    | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Methylene Chloride                       | Inhalation    | Multiple animal species | Carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                                     | Route      | Value                                  | Species                 | Test Result           | Exposure Duration      |
|--|------------|--|-------------------------|-----------------------|------------------------|
| p,p'-Methylenebis(phenyl isocyanate)     | Inhalation | Not classified for development         | Rat                     | NOAEL 0.004 mg/l      | during organogenesis   |
| 4,4'-Diisocyanatodiphenylmethane polymer | Inhalation | Not classified for development         | Rat                     | NOAEL 0.004 mg/l      | during organogenesis   |
| Talc                                     | Ingestion  | Not classified for development         | Rat                     | NOAEL 1,600 mg/kg     | during organogenesis   |
| Treated Silica                           | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 509 mg/kg/day   | 1 generation           |
| Treated Silica                           | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 497 mg/kg/day   | 1 generation           |
| Treated Silica                           | Ingestion  | Not classified for development         | Rat                     | NOAEL 1,350 mg/kg/day | during organogenesis   |
| Toluene                                  | Inhalation | Not classified for female reproduction | Human                   | NOAEL Not available   | occupational exposure  |
| Toluene                                  | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 2.3 mg/l        | 1 generation           |
| Toluene                                  | Ingestion  | Toxic to development                   | Rat                     | LOAEL 520 mg/kg/day   | during gestation       |
| Toluene                                  | Inhalation | Toxic to development                   | Human                   | NOAEL Not available   | poisoning and/or abuse |
| Methylene Chloride                       | Inhalation | Not classified for female reproduction | Rat                     | NOAEL 5.2 mg/l        | 2 generation           |
| Methylene Chloride                       | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 5.2 mg/l        | 2 generation           |
| Methylene Chloride                       | Inhalation | Not classified for development         | Multiple animal species | NOAEL 4.3 mg/l        | during gestation       |

### Target Organ(s)

**Specific Target Organ Toxicity - single exposure**

| Name                                     | Route      | Target Organ(s)                   | Value  | Species                 | Test Result         | Exposure Duration      |
|--|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| p,p'-Methylenebis(phenyl isocyanate)     | Inhalation | respiratory irritation            | May cause respiratory irritation   | official classification | NOAEL Not available |                        |
| 4,4'-Diisocyanatodiphenylmethane polymer | Inhalation | respiratory irritation            | May cause respiratory irritation   | official classification | NOAEL Not available |                        |
| Toluene                                  | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                        |
| Toluene                                  | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Toluene                                  | Inhalation | immune system                     | Not classified   | Mouse                   | NOAEL 0.004 mg/l    | 3 hours                |
| Toluene                                  | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available | poisoning and/or abuse |
| Methylene Chloride                       | Dermal     | blood                             | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL Not available | 4 hours                |
| Methylene Chloride                       | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available | occupational exposure  |
| Methylene Chloride                       | Inhalation | blood                             | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| Methylene Chloride                       | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                         | NOAEL Not available |                        |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                     | Route      | Target Organ(s)                           | Value  | Species  | Test Result         | Exposure Duration      |
|--|------------|---|--|----------|---------------------|------------------------|
| p,p'-Methylenebis(phenyl isocyanate)     | Inhalation | respiratory system                        | Causes damage to organs through prolonged or repeated exposure               | Rat      | LOAEL 0.004 mg/l    | 13 weeks               |
| 4,4'-Diisocyanatodiphenylmethane polymer | Inhalation | respiratory system                        | Causes damage to organs through prolonged or repeated exposure               | Rat      | LOAEL 0.004 mg/l    | 13 weeks               |
| Talc                                     | Inhalation | pneumoconiosis                            | Causes damage to organs through prolonged or repeated exposure               | Human    | NOAEL Not available | occupational exposure  |
| Talc                                     | Inhalation | pulmonary fibrosis   respiratory system   | Not classified   | Rat      | NOAEL 18 mg/m3      | 113 weeks              |
| Treated Silica                           | Inhalation | respiratory system   silicosis            | Not classified   | Human    | NOAEL Not available | occupational exposure  |
| Toluene                                  | Inhalation | auditory system   eyes   olfactory system | Causes damage to organs through prolonged or repeated exposure               | Human    | NOAEL Not available | poisoning and/or abuse |
| Toluene                                  | Inhalation | nervous system                            | May cause damage to organs though prolonged or repeated exposure             | Human    | NOAEL Not available | poisoning and/or abuse |
| Toluene                                  | Inhalation | respiratory system                        | Some positive data exist, but the data are not sufficient for classification | Rat      | LOAEL 2.3 mg/l      | 15 months              |
| Toluene                                  | Inhalation | heart   liver   kidney and/or bladder     | Not classified   | Rat      | NOAEL 11.3 mg/l     | 15 weeks               |
| Toluene                                  | Inhalation | endocrine system                          | Not classified   | Rat      | NOAEL 1.1 mg/l      | 4 weeks                |
| Toluene                                  | Inhalation | immune system                             | Not classified   | Mouse    | NOAEL Not available | 20 days                |
| Toluene                                  | Inhalation | bone, teeth, nails, and/or hair           | Not classified   | Mouse    | NOAEL 1.1 mg/l      | 8 weeks                |
| Toluene                                  | Inhalation | hematopoietic system   vascular system    | Not classified   | Human    | NOAEL Not available | occupational exposure  |
| Toluene                                  | Inhalation | gastrointestinal tract                    | Not classified   | Multiple | NOAEL 11.3          | 15 weeks               |

|                    |            |                               |  | animal species          | mg/l                  |           |
|--------------------|------------|-------------------------------|--|-------------------------|-----------------------|-----------|
| Toluene            | Ingestion  | nervous system                | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks  |
| Toluene            | Ingestion  | heart                         | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks  |
| Toluene            | Ingestion  | liver   kidney and/or bladder | Not classified   | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks  |
| Toluene            | Ingestion  | hematopoietic system          | Not classified   | Mouse                   | NOAEL 600 mg/kg/day   | 14 days   |
| Toluene            | Ingestion  | endocrine system              | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 28 days   |
| Toluene            | Ingestion  | immune system                 | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks   |
| Methylene Chloride | Inhalation | kidney and/or bladder         | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 6.95 mg/l       | 2 years   |
| Methylene Chloride | Inhalation | liver                         | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 0.17 mg/l       | 2 years   |
| Methylene Chloride | Inhalation | respiratory system            | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | LOAEL 35 mg/l         | 8 weeks   |
| Methylene Chloride | Inhalation | heart                         | Not classified   | Human                   | NOAEL Not available   |           |
| Methylene Chloride | Inhalation | immune system                 | Not classified   | Rat                     | NOAEL 18 mg/l         | 28 days   |
| Methylene Chloride | Ingestion  | liver                         | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 1,200 mg/kg/day | 3 months  |
| Methylene Chloride | Ingestion  | blood                         | Not classified   | Rat                     | NOAEL 249 mg/kg/day   | 2 years   |
| Methylene Chloride | Ingestion  | kidney and/or bladder         | Not classified   | Rat                     | NOAEL 1,469 mg/kg/day | 3 months  |
| Methylene Chloride | Ingestion  | eyes                          | Not classified   | Rat                     | NOAEL 249 mg/kg/day   | 104 weeks |

### Aspiration Hazard

| Name    | Value             |
|---------|-------------------|
| Toluene | Aspiration hazard |

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

## SECTION 12: Ecological information

### Ecotoxicological information

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

### Chemical fate information

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

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## 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

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

p,p'-Methylenebis(phenyl isocyanate)

##### C.A.S. No

101-68-8

##### % by Wt

Trade Secret 30 - 50

#### This material contains a chemical which requires export notification under TSCA Section 12[b]:

##### Ingredient (Category if applicable)

Methylene Chloride

##### C.A.S. No

75-09-2

##### Regulation

Toxic Substances Control Act (TSCA) 6  
Banned or Restricted Use Chemicals

##### Status

Applicable

#### Additional TSCA Information

| <u>Components</u>  | <u>CAS No</u> | <u>Additional Information</u>   |
|--------------------|---------------|---|
| Methylene Chloride | 75-09-2       | This chemical/product is not and cannot be distributed in commerce (as defined in TSCA section 3(5)) or processed (as defined in TSCA section 3(13)) for consumer paint or coating removal. |

### 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:** Reacts with Water

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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