



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 09/01/15  | <b>Supersedes Date:</b> | 07/10/14 |

### Product identifier

3M™ Fiberglass Matting Adhesive PN 08277

### ID Number(s):

41-0003-6756-9, 41-0003-8006-7, 41-9103-0381-1, 60-4550-5029-8

### Recommended use

Automotive, SMC/Fiberglass Adhesive used to bond backup strips and patches.

### Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Automotive Aftermarket                  |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 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:**

26-8680-6, 26-7545-2

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 06/28/16  | <b>Supersedes Date:</b> | 05/23/14 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Fiberglass Mat Adhesive PN 08277 Part B

#### Product Identification Numbers

LB-K100-0707-3, LB-K100-0711-4, LB-K100-0910-3

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

##### Recommended use

Automotive, Adhesive

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Automotive Aftermarket                  |
| <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

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Health Hazard |

##### Pictograms

**Hazard Statements**

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

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

Do not breathe dust/fume/gas/mist/vapors/spray.  
Do not eat, drink or smoke when using this product.  
Wash thoroughly after handling.

**Response:**

Get medical advice/attention if you feel unwell.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

2% of the mixture consists of ingredients of unknown acute oral toxicity.

2% of the mixture consists of ingredients of unknown acute dermal toxicity.

## SECTION 3: Composition/information on ingredients

| Ingredient                                 | C.A.S. No.    | % by Wt                |
|--|---------------|------------------------|
| Polyether Polyol (NJTSRN 04499600-6782)    | Trade Secret* | 30 - 60 Trade Secret * |
| Talc                                       | 14807-96-6    | 15 - 40 Trade Secret * |
| Polyol (NJTSRN 04499600-6783)              | Trade Secret* | 15 - 40 Trade Secret * |
| Urethane Prepolymer (NJTSRN 04499600-6781) | Trade Secret* | 3 - 7 Trade Secret *   |
| Clay                                       | 71011-24-0    | 1 - 5 Trade Secret *   |
| Sodium Oxide                               | Trade Secret* | < 0.5 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:**

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

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

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

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**

Carbon monoxide

Carbon dioxide

Oxides of Nitrogen

**Condition**

During Combustion

During Combustion

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.

**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.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

For industrial or professional use only. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store away from acids. Store away from strong bases. 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            |
|------------|------------|--------|--|--------------------------------|
| Talc       | 14807-96-6 | ACGIH  | TWA(respirable fraction):2 mg/m <sup>3</sup>   | A4: Not class. as human carcin |
| Talc       | 14807-96-6 | CMRG   | TWA(as respirable dust):0.5 mg/m <sup>3</sup>  |                                |
| Talc       | 14807-96-6 | OSHA   | TWA concentration(as total dust):0.3 mg/m <sup>3</sup> ;TWA concentration(respirable):0.1 mg/m <sup>3</sup> (2.4 millions of particles/cu. ft.);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**

None required.

**Skin/hand protection**

No chemical protective gloves are required.

**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**

|  |   |
|--|---|
| <b>General Physical Form:</b>                  | Liquid  |
| <b>Specific Physical Form:</b>                 | Viscous   |
| <b>Odor, Color, Grade:</b>                     | Slight ammonia like odor, dark green                            |
| <b>Odor threshold</b>                          | <i>No Data Available</i>  |
| <b>pH</b>                                      | <i>Not Applicable</i>   |
| <b>Melting point</b>                           | <i>No Data Available</i>  |
| <b>Boiling Point</b>                           | >=410 °F  |
| <b>Flash Point</b>                             | > 340 °F [ <i>Test Method:</i> Tagliabue Closed Cup]            |
| <b>Evaporation rate</b>                        | <=1 [ <i>Ref Std:</i> WATER=1]                                  |
| <b>Flammability (solid, gas)</b>               | Not Applicable  |
| <b>Flammable Limits(LEL)</b>                   | <i>Not Applicable</i>   |
| <b>Flammable Limits(UEL)</b>                   | <i>Not Applicable</i>   |
| <b>Vapor Pressure</b>                          | <i>Not Applicable</i>   |
| <b>Vapor Density</b>                           | >=1 [ <i>Ref Std:</i> AIR=1]                                    |
| <b>Density</b>                                 | 1.0 - 1.1 g/ml  |
| <b>Specific Gravity</b>                        | 1.0 - 1.1   |
| <b>Solubility in Water</b>                     | Negligible  |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>  |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>  |
| <b>Autoignition temperature</b>                | <i>Not Applicable</i>   |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>  |
| <b>Viscosity</b>                               | 1,400 - 1,800 centipoise  |
| <b>Hazardous Air Pollutants</b>                | 0 lb HAPS/lb solids [ <i>Test Method:</i> Calculated]           |
| <b>Volatile Organic Compounds</b>              | 2 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]       |
| <b>Volatile Organic Compounds</b>              | 0.1 % weight [ <i>Test Method:</i> calculated per CARB title 2] |
| <b>Percent volatile</b>                        | 0.19 % weight   |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | 2 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]       |

**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**

High shear and high temperature conditions

**10.5. Incompatible materials**

Strong acids  
Strong oxidizing agents  
Strong bases  
Alcohols

**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 and throat pain.

May cause additional health effects (see below).

#### Skin Contact:

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

#### Eye Contact:

Vapors released during curing may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion:

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

#### 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.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| Name                                       | Route     | Species | Value   |
|--|-----------|---------|---|
| Overall product                            | Dermal    |         | No data available; calculated ATE > 5,000 mg/kg |
| Overall product                            | Ingestion |         | No data available; calculated ATE > 5,000 mg/kg |
| Polyether Polyol (NJTSRN 04499600-6782)    | Dermal    | Rat     | LD50 > 2,000 mg/kg                              |
| Polyether Polyol (NJTSRN 04499600-6782)    | Ingestion | Rat     | LD50 > 2,500 mg/kg                              |
| Talc                                       | Dermal    |         | LD50 estimated to be > 5,000 mg/kg              |
| Talc                                       | Ingestion |         | LD50 estimated to be > 5,000 mg/kg              |
| Polyol (NJTSRN 04499600-6783)              | Dermal    | Rabbit  | LD50 > 5,000 mg/kg                              |
| Polyol (NJTSRN 04499600-6783)              | Ingestion | Rat     | LD50 > 10,000 mg/kg                             |
| Urethane Prepolymer (NJTSRN 04499600-6781) | Dermal    |         | LD50 estimated to be > 5,000 mg/kg              |
| Urethane Prepolymer (NJTSRN 04499600-6781) | Ingestion |         | LD50 estimated to be 2,000 - 5,000 mg/kg        |
| Sodium Oxide                               | Ingestion |         | LD50 estimated to be 50 - 300 mg/kg             |

ATE = acute toxicity estimate



**Skin Corrosion/Irritation**

| Name                                    | Species | Value                     |
|---|---------|---------------------------|
| Polyether Polyol (NJTSRN 04499600-6782) | Rabbit  | No significant irritation |
| Talc                                    | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                    | Species | Value                     |
|---|---------|---------------------------|
| Polyether Polyol (NJTSRN 04499600-6782) | Rabbit  | Mild irritant             |
| Talc                                    | Rabbit  | No significant irritation |

**Skin Sensitization**

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

**Respiratory Sensitization**

| Name | Species | Value           |
|------|---------|-----------------|
| Talc | Human   | Not sensitizing |

**Germ Cell Mutagenicity**

| Name | Route    | Value         |
|------|----------|---------------|
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name | Route      | Species | Value  |
|------|------------|---------|--|
| Talc | Inhalation | Rat     | 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    |
|------|-----------|--------------------------|---------|-------------------|----------------------|
| Talc | Ingestion | Not toxic to development | Rat     | NOAEL 1,600 mg/kg | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

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

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route      | Target Organ(s)                         | Value  | Species | Test Result         | Exposure Duration     |
|------|------------|---|--|---------|---------------------|-----------------------|
| Talc | Inhalation | pneumoconiosis                          | Causes damage to organs through prolonged or repeated exposure               | Human   | NOAEL Not available | occupational exposure |
| Talc | Inhalation | pulmonary fibrosis   respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 18 mg/m3      | 113 weeks             |

**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.

Incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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

Not regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M transportation classifications are based on product formulation, packaging, 3M policies and 3M understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

## 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

### 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

### HMIS Hazard Classification

**Health: 1 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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| <b>Issue Date:</b>     | 10/07/16  | <b>Supersedes Date:</b> | 08/08/16 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Fiberglass Mat Adhesive PN 08277 Part A

#### Product Identification Numbers

LB-K100-0688-0, LB-K100-0908-0

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

##### Recommended use

Automotive, Adhesive used with Part B

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Automotive Aftermarket                  |
| <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

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

## Symbols

Exclamation mark | Health Hazard |

## Pictograms



## Hazard Statements

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

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

## Precautionary Statements

### Prevention:

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

### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Call a POISON CENTER or doctor/physician if you feel unwell.

### Storage:

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

### Disposal:

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

## 2.3. Hazards not otherwise classified

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

13% of the mixture consists of ingredients of unknown acute oral toxicity.

12% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

| <b>Ingredient</b>                          | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|--|-------------------|------------------------|
| Methylene Phenylene Isocyanate             | 101-68-8          | 30 - 60 Trade Secret * |
| Urethane Prepolymer (NJTSRN 04499600-6779) | Trade Secret*     | 30 - 60 Trade Secret * |
| Diisocyanate Polymer                       | 25686-28-6        | 10 - 30 Trade Secret * |
| Talc                                       | 14807-96-6        | 7 - 13 Trade Secret *  |
| Aluminum Silicate (NJTSRN 04499600-6789)   | Trade Secret*     | 7 - 13 Trade Secret *  |
| Thickening Agent (NJTSRN 04499600-6784)    | Trade Secret*     | 1 - 5 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**

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**

DO NOT USE WATER In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

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

Closed containers exposed to heat from fire may build pressure and explode.

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

Carbon monoxide  
Carbon dioxide  
Hydrogen Cyanide  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
During Combustion  
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.

**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. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

For industrial or professional use only. Do not use in a confined area with minimal air exchange. 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 loss of stabilizing materials. 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 |
|--------------------------------|------------|-------------------------|--|---------------------|
| Methylene Phenylene Isocyanate | 101-68-8   | OSHA                    | CEIL:0.2 mg/m <sup>3</sup> (0.02 ppm)  |                     |
| Methylene Phenylene Isocyanate | 101-68-8   | ACGIH                   | TWA:0.005 ppm  |                     |
| FREE ISOCYANATES               | 101-68-8   | Manufacturer determined | TWA:0.005 ppm;STEL:0.02 ppm  |                     |
| Talc                           | 14807-96-6 | OSHA                    | TWA concentration(as total dust):0.3 mg/m <sup>3</sup> ;TWA concentration(respirable):0.1 mg/m <sup>3</sup> (2.4 millions of particles/cu. ft.);TWA:20 |                     |

|   |              |       |  |                                |
|---|--------------|-------|--|--------------------------------|
|   |              |       | millions of particles/cu. ft.                                    |                                |
| Talc                                    | 14807-96-6   | ACGIH | TWA(respirable fraction):2 mg/m3                                 | A4: Not class. as human carcin |
| Thickening Agent (NJTSRN 04499600-6784) | Trade Secret | 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**

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)**

**Eye/face protection**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:  
 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: Butyl Rubber  
 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 – Butyl rubber  
 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



|  |   |
|--|---|
| <b>Odor, Color, Grade:</b>                     | White, slight isocyanate odor                                 |
| <b>pH</b>                                      | <i>Not Applicable</i>   |
| <b>Melting point</b>                           | <i>Not Applicable</i>   |
| <b>Boiling Point</b>                           | <i>No Data Available</i>                                      |
| <b>Flash Point</b>                             | > 383 °F [ <i>Test Method:</i> Closed Cup]                    |
| <b>Evaporation rate</b>                        | < 1 [ <i>Ref Std:</i> ETHER=1]                                |
| <b>Flammability (solid, gas)</b>               | Not Applicable  |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>                                      |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>                                      |
| <b>Vapor Pressure</b>                          | .010 mmHg [ <i>Details:</i> @77.00 F for product]             |
| <b>Vapor Density</b>                           | < 1 [ <i>Ref Std:</i> AIR=1]                                  |
| <b>Density</b>                                 | 10.72 lb/gal  |
| <b>Specific Gravity</b>                        | 1.288 [ <i>Ref Std:</i> WATER=1]                              |
| <b>Solubility In Water</b>                     | <i>No Data Available</i>                                      |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                                      |
| <b>Viscosity</b>                               | <i>No Data Available</i>                                      |
| <b>Hazardous Air Pollutants</b>                | 0.779 lb HAPS/lb solids [ <i>Test Method:</i> Calculated]     |
| <b>Volatile Organic Compounds</b>              | 0 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]     |
| <b>Volatile Organic Compounds</b>              | 0 % weight [ <i>Test Method:</i> calculated per CARB title 2] |
| <b>Percent volatile</b>                        | 0 % weight  |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | 0 g/l [ <i>Test Method:</i> calculated SCAQMD rule 443.1]     |

## 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 may occur.

### 10.4. Conditions to avoid

Heat  
Sparks and/or flames

### 10.5. Incompatible materials

Strong acids  
Strong bases  
Water

### 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 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:

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.

#### Carcinogenicity:

| <u>Ingredient</u>          | <u>CAS No.</u> | <u>Class Description</u>      | <u>Regulation</u>                           |
|----------------------------|----------------|-------------------------------|---|
| Generic: CAS NO S14807966D | 14807-96-6     | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

#### Additional Information:

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

| <u>Name</u>                    | <u>Route</u>           | <u>Species</u> | <u>Value</u>                                    |
|--------------------------------|------------------------|----------------|---|
| 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 |
| Methylene Phenylene Isocyanate | Dermal                 | Rabbit         | LD50 > 5,000 mg/kg                              |
| Methylene Phenylene Isocyanate | Inhalation-Dust/Mist   | Rat            | LC50 0.368 mg/l                                 |

|  |                                |        |  |
|--|--------------------------------|--------|--|
|  | (4 hours)                      |        |  |
| Methylene Phenylene Isocyanate             | Ingestion                      | Rat    | LD50 31,600 mg/kg                        |
| Urethane Prepolymer (NJTSRN 04499600-6779) | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg       |
| Urethane Prepolymer (NJTSRN 04499600-6779) | Ingestion                      |        | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Diisocyanate Polymer                       | Dermal                         | Rabbit | LD50 > 5,000 mg/kg                       |
| Diisocyanate Polymer                       | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 0.368 mg/l                          |
| Diisocyanate Polymer                       | Ingestion                      | Rat    | LD50 31,600 mg/kg                        |
| Talc                                       | Dermal                         |        | LD50 estimated to be > 5,000 mg/kg       |
| Talc                                       | Ingestion                      |        | LD50 estimated to be > 5,000 mg/kg       |
| Thickening Agent (NJTSRN 04499600-6784)    | Dermal                         | Rabbit | LD50 > 5,000 mg/kg                       |
| Thickening Agent (NJTSRN 04499600-6784)    | Inhalation-Dust/Mist (4 hours) | Rat    | LC50 > 0.691 mg/l                        |
| Thickening Agent (NJTSRN 04499600-6784)    | Ingestion                      | Rat    | LD50 > 5,110 mg/kg                       |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                    | Species                 | Value                     |
|---|-------------------------|---------------------------|
| Methylene Phenylene Isocyanate          | official classification | Irritant                  |
| Diisocyanate Polymer                    | official classification | Irritant                  |
| Talc                                    | Rabbit                  | No significant irritation |
| Thickening Agent (NJTSRN 04499600-6784) | Rabbit                  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                    | Species                 | Value                     |
|---|-------------------------|---------------------------|
| Methylene Phenylene Isocyanate          | official classification | Severe irritant           |
| Diisocyanate Polymer                    | official classification | Severe irritant           |
| Talc                                    | Rabbit                  | No significant irritation |
| Thickening Agent (NJTSRN 04499600-6784) | Rabbit                  | No significant irritation |

**Skin Sensitization**

| Name                                    | Species                 | Value           |
|---|-------------------------|-----------------|
| Methylene Phenylene Isocyanate          | official classification | Sensitizing     |
| Diisocyanate Polymer                    | official classification | Sensitizing     |
| Thickening Agent (NJTSRN 04499600-6784) | Human and animal        | Not sensitizing |

**Respiratory Sensitization**

| Name                           | Species | Value           |
|--------------------------------|---------|-----------------|
| Methylene Phenylene Isocyanate | Human   | Sensitizing     |
| Diisocyanate Polymer           | Human   | Sensitizing     |
| Talc                           | Human   | Not sensitizing |

**Germ Cell Mutagenicity**

| Name                                    | Route    | Value  |
|---|----------|--|
| Methylene Phenylene Isocyanate          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Diisocyanate 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  |
| Thickening Agent (NJTSRN 04499600-6784) | In Vitro | Not mutagenic  |

**Carcinogenicity**

| Name                                    | Route         | Species | Value  |
|---|---------------|---------|--|
| Methylene Phenylene Isocyanate          | Inhalation    | Rat     | Some positive data exist, but the data are not sufficient for classification |
| Diisocyanate 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 |
| Thickening Agent (NJTSRN 04499600-6784) | 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    |
|---|------------|--|---------|-----------------------|----------------------|
| Methylene Phenylene Isocyanate          | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.004 mg/l      | during organogenesis |
| Diisocyanate Polymer                    | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat     | NOAEL 0.004 mg/l      | during organogenesis |
| Talc                                    | Ingestion  | Not toxic to development   | Rat     | NOAEL 1,600 mg/kg     | during organogenesis |
| Thickening Agent (NJTSRN 04499600-6784) | Ingestion  | Not toxic to female reproduction   | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| Thickening Agent (NJTSRN 04499600-6784) | Ingestion  | Not toxic to male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| Thickening Agent (NJTSRN 04499600-6784) | Ingestion  | Not toxic to 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 |
|--------------------------------|------------|------------------------|----------------------------------|-------------------------|---------------------|-------------------|
| Methylene Phenylene Isocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available |                   |
| Diisocyanate Polymer           | 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     |
|--------------------------------|------------|--------------------|--|---------|---------------------|-----------------------|
| Methylene Phenylene Isocyanate | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat     | LOAEL 0.004 mg/l    | 13 weeks              |
| Diisocyanate 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 | Some positive data exist, but the data are not sufficient for classification | Rat   | NOAEL 18 mg/m3      | 113 weeks             |
| Thickening Agent (NJTSRN 04499600-6784) | 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 waste product 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.

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

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

| <u>Ingredient</u>  | <u>C.A.S. No</u> | <u>% by Wt</u>       |
|--|------------------|----------------------|
| Methylene Phenylene Isocyanate   | 101-68-8         | Trade Secret 30 - 60 |
| Methylene Phenylene Isocyanate (Benzene, 1,1'-methylenebis[4-isocyanato-]) | 101-68-8         | 30 - 60              |

Methylene Phenylene Isocyanate 101-68-8 30 - 60  
(DIISOCYANATES (CERTAIN CHEMICALS  
ONLY))

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Industrial Safety and Health Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

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:** 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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