



## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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### Product identifier

3M™ SMC/Fiberglass Repair Adhesive-90, 08274

### ID Number(s):

41-0003-8007-5, 60-4550-5119-7

### Recommended use

Automotive

### 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:**

30-8517-2, 33-9460-8

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 33-9460-8 | <b>Version Number:</b>  | 2.05     |
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ SMC/Fiberglass Repair Adhesive-90 Part B, PNs 08274, 08283

#### Product Identification Numbers

60-4100-0975-1  
7100016227

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

##### Recommended use

Automotive

#### 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.  
Skin Sensitizer: Category 1.  
Carcinogenicity: Category 2.

#### 2.2. Label elements

##### Signal word

Warning

**Symbols**

Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

**Precautionary Statements****General:**

Keep out of reach of children.

**Prevention:**

Obtain special instructions before use.

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

Avoid breathing dust/fume/gas/mist/vapors/spray.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

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:**

Store locked up.

**Disposal:**

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

23% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

| Ingredient  | C.A.S. No.    | % by Wt                |
|---|---------------|------------------------|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | 25068-38-6    | 30 - 60 Trade Secret * |
| Oxide Glass Chemicals                               | 65997-17-3    | 10 - 30 Trade Secret * |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | 14228-73-0    | 7 - 13 Trade Secret *  |
| Fused Silica  | 60676-86-0    | 7 - 13 Trade Secret *  |
| Acrylate Polymer                                    | Trade Secret* | 1 - 11 Trade Secret *  |
| Silica  | 7631-86-9     | 1 - 5 Trade Secret *   |

|   |            |                          |
|---|------------|--------------------------|
| 3-(Trimethoxysilyl)propyl Glycidyl Ether        | 2530-83-8  | 0.5 - 1.5 Trade Secret * |
| Dimethyl Siloxane, Reaction Product With Silica | 67762-90-7 | 0.5 - 1.5 Trade Secret * |
| Carbon Black                                    | 1333-86-4  | < 0.5 Trade Secret *     |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

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

Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient                   | C.A.S. No. | Agency | Limit type   | Additional Comments          |
|------------------------------|------------|--------|--|------------------------------|
| Carbon Black                 | 1333-86-4  | ACGIH  | TWA(inhalable fraction):3 mg/m3                                  | A3: Confirmed animal carcin. |
| Carbon Black                 | 1333-86-4  | OSHA   | TWA:3.5 mg/m3  |                              |
| SILICA, AMORPHOUS            | 60676-86-0 | OSHA   | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |                              |
| CERAMIC FIBERS               | 65997-17-3 | ACGIH  | TWA(as fiber):0.2 fiber/cc                                       | A2: Suspected human carcin.  |
| SPECIAL PURPOSE GLASS FIBERS | 65997-17-3 | ACGIH  | TWA(as fiber):1 fiber/cc   | A3: Confirmed animal carcin. |
| SILICA, AMORPHOUS            | 67762-90-7 | OSHA   | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |                              |
| SILICA, AMORPHOUS            | 7631-86-9  | OSHA   | TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft. |                              |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

**8.2. Exposure controls****8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Indirect Vented Goggles

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective 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

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>Odor, Color, Grade:</b>                     | Black, Viscous Liquid.                                |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                              |
| <b>pH</b>                                      | <i>No Data Available</i>                              |
| <b>Melting point</b>                           | <i>No Data Available</i>                              |
| <b>Boiling Point</b>                           | >= 95 °F  |
| <b>Flash Point</b>                             | >= 220 °F [Test Method: Closed Cup]                   |
| <b>Evaporation rate</b>                        | <= 1 Units not avail. or not appl. [Ref Std: BUOAC=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>                          | <= 27 psia  |
| <b>Vapor Pressure</b>                          | <i>No Data Available</i>                              |
| <b>Vapor Density</b>                           | <i>No Data Available</i>                              |
| <b>Density</b>                                 | 10.014 lb/gal   |
| <b>Specific Gravity</b>                        | 1.2 [Ref Std: WATER=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>No Data Available</i>                              |

|   |  |
|---|--|
| <b>Decomposition temperature</b>          | <i>No Data Available</i>   |
| <b>Viscosity</b>                          | 100,000 centipoise - 225,000 centipoise [ <i>Test Method: Brookfield</i> ] |
| <b>Hazardous Air Pollutants</b>           | 0.00162 lb HAPS/gal  |
| <b>Molecular weight</b>                   | <i>No Data Available</i>   |
| <b>Volatile Organic Compounds</b>         | 15 g/l [ <i>Test Method: calculated SCAQMD rule 443.1</i> ]                |
| <b>Volatile Organic Compounds</b>         | 1.6 % weight [ <i>Test Method: calculated per CARB title 2</i> ]           |
| <b>Percent volatile</b>                   | 1.6 % weight   |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | 15 g/l [ <i>Test Method: calculated SCAQMD rule 443.1</i> ]                |

## 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

Sparks and/or flames

### 10.5. Incompatible materials

Amines  
Strong acids  
Strong bases  
Strong oxidizing agents

### 10.6. Hazardous decomposition products

| <u>Substance</u>  | <u>Condition</u> |
|-------------------|------------------|
| Aldehydes         | Not Specified    |
| Carbon monoxide   | Not Specified    |
| Carbon dioxide    | Not Specified    |
| Hydrogen Chloride | Not Specified    |

## 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:

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:

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

| Ingredient               | CAS No.    | Class Description             | Regulation                                  |
|--------------------------|------------|-------------------------------|---|
| Generic: CERAMIC FIBERS  | 65997-17-3 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |
| Generic: GLASS FILAMENTS | 65997-17-3 | Anticipated human carcinogen  | National Toxicology Program Carcinogens     |
| Carbon Black             | 1333-86-4  | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

#### Toxicological Data

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

#### Acute Toxicity

| Name  | Route                          | Species | Value  |
|---|--------------------------------|---------|--|
| Overall product                                     | Dermal                         |         | No data available; calculated ATE >5,000 mg/kg |
| Overall product                                     | Inhalation-Dust/Mist(4 hr)     |         | No data available; calculated ATE >12.5 mg/l   |
| Overall product                                     | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Dermal                         | Rat     | LD50 > 1,600 mg/kg                             |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Ingestion                      | Rat     | LD50 > 1,000 mg/kg                             |
| Oxide Glass Chemicals                               | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| Oxide Glass Chemicals                               | Ingestion                      |         | LD50 estimated to be 2,000 - 5,000 mg/kg       |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                             |
| Fused Silica  | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 5.19 mg/l                               |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | Ingestion                      | Rat     | LD50 1,098 mg/kg                               |
| Fused Silica  | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| Fused Silica  | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| Acrylate Polymer                                    | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Acrylate Polymer                                    | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| Silica  | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                             |
| Silica  | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                              |
| Silica  | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                             |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether            | Dermal                         | Rabbit  | LD50 4,000 mg/kg                               |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether            | Inhalation-                    | Rat     | LC50 > 5.3 mg/l                                |

|   |                                       |        |                    |
|---|---------------------------------------|--------|--------------------|
|   | Dust/Mist<br>(4 hours)                |        |                    |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether        | Ingestion                             | Rat    | LD50 7,010 mg/kg   |
| Dimethyl Siloxane, Reaction Product With Silica | Dermal                                | Rabbit | LD50 > 5,000 mg/kg |
| Dimethyl Siloxane, Reaction Product With Silica | Inhalation-<br>Dust/Mist<br>(4 hours) | Rat    | LC50 > 0.691 mg/l  |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion                             | Rat    | LD50 > 5,110 mg/kg |
| Carbon Black                                    | Dermal                                | Rabbit | LD50 > 3,000 mg/kg |
| Carbon Black                                    | Ingestion                             | Rat    | LD50 > 8,000 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name  | Species                   | Value                     |
|---|---------------------------|---------------------------|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Rabbit                    | Mild irritant             |
| Oxide Glass Chemicals                               | Professional<br>judgement | No significant irritation |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | In vitro<br>data          | Irritant                  |
| Fused Silica  | Rabbit                    | No significant irritation |
| Acrylate Polymer                                    | Professional<br>judgement | Minimal irritation        |
| Silica  | Rabbit                    | No significant irritation |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether            | Rabbit                    | Mild irritant             |
| Dimethyl Siloxane, Reaction Product With Silica     | Rabbit                    | No significant irritation |
| Carbon Black  | Rabbit                    | No significant irritation |

### Serious Eye Damage/Irritation

| Name  | Species                   | Value                     |
|---|---------------------------|---------------------------|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Rabbit                    | Moderate irritant         |
| Oxide Glass Chemicals                               | Professional<br>judgement | No significant irritation |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | In vitro<br>data          | No significant irritation |
| Fused Silica  | Rabbit                    | No significant irritation |
| Acrylate Polymer                                    | Professional<br>judgement | Mild irritant             |
| Silica  | Rabbit                    | No significant irritation |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether            | Rabbit                    | Corrosive                 |
| Dimethyl Siloxane, Reaction Product With Silica     | Rabbit                    | No significant irritation |
| Carbon Black  | Rabbit                    | No significant irritation |

### Skin Sensitization

| Name  | Species                | Value          |
|---|------------------------|----------------|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Human<br>and<br>animal | Sensitizing    |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | Mouse                  | Sensitizing    |
| Fused Silica  | Human<br>and<br>animal | Not classified |
| Silica  | Human<br>and<br>animal | Not classified |

|   |                  |                |
|---|------------------|----------------|
| 3-(Trimethoxysilyl)propyl Glycidyl Ether        | Guinea pig       | Not classified |
| Dimethyl Siloxane, Reaction Product With Silica | Human and animal | Not classified |

**Respiratory Sensitization**

| Name  | Species | Value          |
|---|---------|----------------|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name  | Route    | Value  |
|---|----------|--|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | In vivo  | Not mutagenic  |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Oxide Glass Chemicals                               | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | In vivo  | Not mutagenic  |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Fused Silica  | In Vitro | Not mutagenic  |
| Silica  | In Vitro | Not mutagenic  |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether            | In vivo  | Not mutagenic  |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether            | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Siloxane, Reaction Product With Silica     | In Vitro | Not mutagenic  |
| Carbon Black  | In Vitro | Not mutagenic  |
| Carbon Black  | In vivo  | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name  | Route         | Species                 | Value  |
|---|---------------|-------------------------|--|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Oxide Glass Chemicals                               | Inhalation    | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Fused Silica  | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Silica  | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether            | Dermal        | Mouse                   | Not carcinogenic   |
| Dimethyl Siloxane, Reaction Product With Silica     | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Carbon Black  | Dermal        | Mouse                   | Not carcinogenic   |
| Carbon Black  | Ingestion     | Mouse                   | Not carcinogenic   |
| Carbon Black  | Inhalation    | Rat                     | Carcinogenic   |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name  | Route     | Value                                  | Species | Test Result         | Exposure Duration    |
|---|-----------|--|---------|---------------------|----------------------|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750 mg/kg/day | 2 generation         |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 750 mg/kg/day | 2 generation         |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Dermal    | Not classified for development         | Rabbit  | NOAEL 300 mg/kg/day | during organogenesis |
| 4,4'-Isopropylidenediphenol-                        | Ingestion | Not classified for development         | Rat     | NOAEL 750           | 2 generation         |

|   |            |  |     | mg/kg/day             |                            |
|---|------------|--|-----|-----------------------|----------------------------|
| Epichlorohydrin Polymer                         |            |  |     |                       |                            |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane    | Ingestion  | Not classified for female reproduction | Rat | NOAEL 300 mg/kg/day   | prematuring into lactation |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane    | Ingestion  | Not classified for male reproduction   | Rat | NOAEL 300 mg/kg/day   | 33 days                    |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane    | Ingestion  | Not classified for development         | Rat | NOAEL 300 mg/kg/day   | prematuring into lactation |
| Fused Silica                                    | Ingestion  | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day   | 1 generation               |
| Fused Silica                                    | Inhalation | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation               |
| Fused Silica                                    | Ingestion  | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis       |
| Silica  | Ingestion  | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day   | 1 generation               |
| Silica  | Ingestion  | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation               |
| Silica  | Ingestion  | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis       |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether        | Ingestion  | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation               |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether        | Ingestion  | Not classified for male reproduction   | Rat | NOAEL 1,000 mg/kg/day | 1 generation               |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether        | Ingestion  | Not classified for development         | Rat | NOAEL 3,000 mg/kg/day | during organogenesis       |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion  | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day   | 1 generation               |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion  | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation               |
| Dimethyl Siloxane, Reaction Product With Silica | Ingestion  | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis       |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name   | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|--|------------|------------------------|--|------------------------|---------------------|-------------------|
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name  | Route      | Target Organ(s)  | Value          | Species | Test Result           | Exposure Duration     |
|---|------------|--|----------------|---------|-----------------------|-----------------------|
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Dermal     | liver  | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 2 years               |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Dermal     | nervous system   | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 13 weeks              |
| 4,4'-Isopropylidenediphenol-Epichlorohydrin Polymer | Ingestion  | auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 28 days               |
| Oxide Glass Chemicals                               | Inhalation | respiratory system   | Not classified | Human   | NOAEL not available   | occupational exposure |
| 1,4-Bis[(2,3-Epoxypropoxy)Methyl]Cyclohexane        | Ingestion  | endocrine system   gastrointestinal tract   liver   heart  | Not classified | Rat     | NOAEL 300 mg/kg/day   | 33 days               |

|   |            |   |                |       |                       |                       |
|---|------------|---|----------------|-------|-----------------------|-----------------------|
|   |            | hematopoietic system   immune system   nervous system   kidney and/or bladder   |                |       |                       |                       |
| Fused Silica                                    | Inhalation | respiratory system   silicosis  | Not classified | Human | NOAEL Not available   | occupational exposure |
| Silica  | Inhalation | respiratory system   silicosis  | Not classified | Human | NOAEL Not available   | occupational exposure |
| 3-(Trimethoxysilyl)propyl Glycidyl Ether        | Ingestion  | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   kidney and/or bladder   respiratory system | Not classified | Rat   | NOAEL 1,000 mg/kg/day | 28 days               |
| Dimethyl Siloxane, Reaction Product With Silica | Inhalation | respiratory system   silicosis  | Not classified | Human | NOAEL Not available   | occupational exposure |
| Carbon Black                                    | Inhalation | pneumoconiosis  | Not classified | Human | NOAEL Not available   | occupational exposure |

**Aspiration Hazard**

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

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

**SECTION 12: Ecological information****Ecotoxicological information**

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

**Chemical fate information**

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

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate 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**

Carcinogenicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

**15.2. State Regulations**

Contact 3M for more information.

**California Proposition 65****Ingredient****C.A.S. No.****Listing**

SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)

None

Carcinogen

METHANOL

67-56-1

Developmental Toxin

CERAMIC FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)

None

Carcinogen

PHENYL GLYCIDYL ETHER

122-60-1

Carcinogen

CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE [ $\leq 10$  MICROMETERS])

1333-86-4

Carcinogen

**15.3. Chemical Inventories**

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

**15.4. International Regulations**

Contact 3M for more information.

**This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**SECTION 16: Other information****NFPA Hazard Classification**

**Health: 2 Flammability: 1 Instability: 0 Special Hazards: None**

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

**Document Group:** 33-9460-8 **Version Number:** 2.05  
**Issue Date:** 12/05/18 **Supersedes Date:** 07/26/18

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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 30-8517-2 | <b>Version Number:</b>  | 1.10     |
| <b>Issue Date:</b>     | 07/26/18  | <b>Supersedes Date:</b> | 12/27/17 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ SMC/Fiberglass Repair (90 Minutes) Adhesive PN 08274 - Accelerator

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

##### Recommended use

Automotive, adhesive accelerator used with 08274 adhesive base. 08274 is a two part adhesive designed to bond SMC/Fiberglass and Aluminum body panels.

#### 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 1.  
Skin Corrosion/Irritation: Category 1B.  
Skin Sensitizer: Category 1B.  
Reproductive Toxicity: Category 1B.  
Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Corrosion | Exclamation mark | Health Hazard |



**Pictograms**



**Hazard Statements**

Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 May cause respiratory irritation.  
 May damage fertility or the unborn child.

**Precautionary Statements**

**General:**

Keep out of reach of children.

**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.  
 Wear protective gloves, protective clothing, and eye/face protection.  
 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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF ON SKIN: Wash with plenty of soap and water.  
 Immediately call a POISON CENTER or doctor/physician.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Wash contaminated clothing before reuse.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 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**

May cause chemical gastrointestinal burns.

36% of the mixture consists of ingredients of unknown acute oral toxicity.  
 37% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

| Ingredient | C.A.S. No. | % by Wt |
|------------|------------|---------|
|------------|------------|---------|

|   |            |                          |
|---|------------|--------------------------|
| Polymeric Diamide                               | 68911-25-1 | 15 - 40 Trade Secret *   |
| Butadiene Acrylonitrile Copolymer               | 68683-29-4 | 9 - 30 Trade Secret *    |
| Fused Silica                                    | 60676-86-0 | 10 - 30 Trade Secret *   |
| Bis(3-Aminopropyl) Ether of Diethylene Glycol   | 4246-51-9  | 7 - 13 Trade Secret *    |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | 90-72-2    | 5 - 10 Trade Secret *    |
| Amine Epoxy Curing Agent                        | 288-32-4   | 1 - 5 Trade Secret *     |
| Dimethyl Siloxane, Reaction Product with Silica | 67762-90-7 | 1 - 5 Trade Secret *     |
| Calcium Nitrate                                 | 10124-37-5 | 1 - 2.5 Trade Secret *   |
| Bis[(Dimethylamino)Methyl]Phenol                | 71074-89-0 | 0.1 - 1.5 Trade Secret * |
| N-Aminoethylpiperazine                          | 140-31-8   | 0.1 - 1.5 Trade Secret * |
| Toluene   | 108-88-3   | < 0.5 Trade Secret *     |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

#### Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If Swallowed:

Rinse mouth. Do not induce vomiting. Get immediate 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

#### Condition

During Combustion

During Combustion

### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

### 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

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

Store in a well-ventilated place. Keep container tightly closed. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient        | C.A.S. No. | Agency | Limit type  | Additional Comments            |
|-------------------|------------|--------|---|--------------------------------|
| Toluene           | 108-88-3   | ACGIH  | TWA:20 ppm  | A4: Not class. as human carcin |
| Toluene           | 108-88-3   | OSHA   | TWA:200 ppm;CEIL:300 ppm  |                                |
| SILICA, AMORPHOUS | 60676-86-0 | OSHA   | TWA concentration:0.8 mg/m <sup>3</sup> ;TWA:20 millions of particles/cu. ft. |                                |
| SILICA, AMORPHOUS | 67762-90-7 | OSHA   | TWA concentration:0.8 mg/m <sup>3</sup> ;TWA:20 millions of particles/cu. ft. |                                |

ACGIH : American Conference of Governmental Industrial Hygienists  
 AIHA : American Industrial Hygiene Association  
 CMRG : Chemical Manufacturer's Recommended Guidelines  
 OSHA : United States Department of Labor - Occupational Safety and Health Administration  
 TWA: Time-Weighted-Average  
 STEL: Short Term Exposure Limit  
 CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Full Face Shield  
 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

|                                  |  |
|----------------------------------|--|
| <b>General Physical Form:</b>    | Liquid                                   |
| <b>Specific Physical Form:</b>   | Viscous liquid                           |
| <b>Odor, Color, Grade:</b>       | Tan liquid, slight amine odor.           |
| <b>Odor threshold</b>            | <i>No Data Available</i>                 |
| <b>pH</b>                        | <i>Not Applicable</i>                    |
| <b>Melting point</b>             | <i>Not Applicable</i>                    |
| <b>Boiling Point</b>             | >=110 °C                                 |
| <b>Flash Point</b>               | 110 °C [ <i>Test Method:Closed Cup</i> ] |
| <b>Evaporation rate</b>          | <=1 [ <i>Ref Std:BUOAC=1</i> ]           |
| <b>Flammability (solid, gas)</b> | Not Applicable                           |

|   |   |
|---|---|
| Flammable Limits(LEL)                   | No Data Available                                       |
| Flammable Limits(UEL)                   | No Data Available                                       |
| Vapor Pressure                          | <=200 mmHg [@ 20 °C]                                    |
| Vapor Density                           | No Data Available                                       |
| Density                                 | 1.2 g/ml  |
| Specific Gravity                        | 1.2 [Ref Std: WATER=1]                                  |
| Solubility In Water                     | No Data Available                                       |
| Solubility- non-water                   | No Data Available                                       |
| Partition coefficient: n-octanol/ water | No Data Available                                       |
| Autoignition temperature                | No Data Available                                       |
| Decomposition temperature               | No Data Available                                       |
| Viscosity                               | 100,000 - 225,000 centipoise [Test Method: Brookfield]  |
| Hazardous Air Pollutants                | 0.01 lb HAPS/lb solids [Test Method: Calculated]        |
| Molecular weight                        | No Data Available                                       |
| Volatile Organic Compounds              | 4 g/l [Test Method: calculated SCAQMD rule 443.1]       |
| Volatile Organic Compounds              | 0.4 % weight [Test Method: calculated per CARB title 2] |
| Percent volatile                        | 0.4 % weight  |
| VOC Less H2O & Exempt Solvents          | 4 g/l [Test Method: calculated SCAQMD rule 443.1]       |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

#### Substance

None known.

#### Condition

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:

May be harmful in contact with skin.

Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

### Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

### Ingestion:

May be harmful if swallowed.

Gastrointestinal Corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain; nausea; vomiting; and diarrhea; blood in the feces and/or vomitus may also be seen.

May cause additional health effects (see below).

### Additional Health Effects:

### Reproductive/Developmental Toxicity:

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

### 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 ATE2,000 - 5,000 mg/kg |
| Overall product                                 | Ingestion                      |         | No data available; calculated ATE2,000 - 5,000 mg/kg |
| Fused Silica                                    | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                   |
| Fused Silica                                    | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                                    |
| Fused Silica                                    | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                                   |
| Butadiene Acrylonitrile Copolymer               | Dermal                         | Rabbit  | LD50 > 3,000 mg/kg                                   |
| Butadiene Acrylonitrile Copolymer               | Ingestion                      | Rat     | LD50 > 15,300 mg/kg                                  |
| Bis(3-Aminopropyl) Ether of Diethylene Glycol   | Dermal                         | Rabbit  | LD50 2,500 mg/kg                                     |
| Bis(3-Aminopropyl) Ether of Diethylene Glycol   | Ingestion                      | Rat     | LD50 3,160 mg/kg                                     |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | Dermal                         | Rat     | LD50 1,280 mg/kg                                     |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | Ingestion                      | Rat     | LD50 1,000 mg/kg                                     |
| Dimethyl Siloxane, Reaction Product with Silica | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                   |
| Dimethyl Siloxane, Reaction Product with Silica | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 0.691 mg/l                                    |
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion                      | Rat     | LD50 > 5,110 mg/kg                                   |
| Amine Epoxy Curing Agent                        | Dermal                         |         | LD50 estimated to be 200 - 1,000 mg/kg               |

|                                  |                            |                   |  |
|----------------------------------|----------------------------|-------------------|--|
| Amine Epoxy Curing Agent         | Ingestion                  | Rat               | LD50 970 mg/kg                         |
| Calcium Nitrate                  | Ingestion                  | Rat               | LD50 >300, <2000 mg/kg                 |
| Calcium Nitrate                  | Dermal                     | similar compounds | LD50 > 2,000 mg/kg                     |
| Bis[(Dimethylamino)Methyl]Phenol | Ingestion                  |                   | LD50 estimated to be 300 - 2,000 mg/kg |
| N-Aminoethylpiperazine           | Dermal                     | Rabbit            | LD50 865 mg/kg                         |
| N-Aminoethylpiperazine           | Ingestion                  | Rat               | LD50 1,470 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                       |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name  | Species           | Value                     |
|---|-------------------|---------------------------|
| Overall product                                 | Rabbit            | Corrosive                 |
| Polymeric Diamide                               | Rabbit            | Irritant                  |
| Fused Silica                                    | Rabbit            | No significant irritation |
| Bis(3-Aminopropyl) Ether of Diethylene Glycol   | Rabbit            | Corrosive                 |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | Rabbit            | Corrosive                 |
| Dimethyl Siloxane, Reaction Product with Silica | Rabbit            | No significant irritation |
| Calcium Nitrate                                 | similar compounds | No significant irritation |
| Bis[(Dimethylamino)Methyl]Phenol                | similar compounds | Corrosive                 |
| N-Aminoethylpiperazine                          | Rabbit            | Corrosive                 |
| Toluene   | Rabbit            | Irritant                  |

**Serious Eye Damage/Irritation**

| Name  | Species                | Value                     |
|---|------------------------|---------------------------|
| Overall product                                 | similar health hazards | Corrosive                 |
| Polymeric Diamide                               | similar health hazards | Corrosive                 |
| Fused Silica                                    | Rabbit                 | No significant irritation |
| Bis(3-Aminopropyl) Ether of Diethylene Glycol   | similar health hazards | Corrosive                 |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | Rabbit                 | Corrosive                 |
| Dimethyl Siloxane, Reaction Product with Silica | Rabbit                 | No significant irritation |
| Calcium Nitrate                                 | Rabbit                 | Corrosive                 |
| Bis[(Dimethylamino)Methyl]Phenol                | similar compounds      | Corrosive                 |
| N-Aminoethylpiperazine                          | Rabbit                 | Corrosive                 |
| Toluene   | Rabbit                 | Moderate irritant         |

**Skin Sensitization**

| Name              | Species          | Value          |
|-------------------|------------------|----------------|
| Overall product   | Guinea pig       | Sensitizing    |
| Polymeric Diamide | Guinea pig       | Sensitizing    |
| Fused Silica      | Human and animal | Not classified |

|   |                   |                |
|---|-------------------|----------------|
| Butadiene Acrylonitrile Copolymer               | Guinea pig        | Not classified |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | Guinea pig        | Not classified |
| Dimethyl Siloxane, Reaction Product with Silica | Human and animal  | Not classified |
| Calcium Nitrate                                 | similar compounds | Not classified |
| N-Aminoethylpiperazine                          | Guinea pig        | Sensitizing    |
| Toluene   | Guinea pig        | Not classified |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name  | Route    | Value  |
|---|----------|--|
| Fused Silica                                    | In Vitro | Not mutagenic  |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | In Vitro | Not mutagenic  |
| Dimethyl Siloxane, Reaction Product with Silica | In Vitro | Not mutagenic  |
| Calcium Nitrate                                 | In Vitro | Not mutagenic  |
| N-Aminoethylpiperazine                          | In vivo  | Not mutagenic  |
| N-Aminoethylpiperazine                          | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Toluene   | In Vitro | Not mutagenic  |
| Toluene   | In vivo  | Not mutagenic  |

### Carcinogenicity

| Name  | Route         | Species | Value  |
|---|---------------|---------|--|
| Fused Silica                                    | Not Specified | Mouse   | Some positive data exist, but the data are not sufficient for classification |
| Dimethyl Siloxane, Reaction Product with 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 |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name  | Route      | Value                                  | Species | Test Result           | Exposure Duration    |
|---|------------|--|---------|-----------------------|----------------------|
| Fused Silica                                    | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| Fused Silica                                    | Inhalation | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| Fused Silica                                    | Ingestion  | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation         |
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation         |
| Dimethyl Siloxane, Reaction Product with Silica | Ingestion  | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis |
| Calcium Nitrate                                 | Ingestion  | Not classified for female reproduction | similar | NOAEL 1,500           | prematuring          |



|                        |            |  |                   |                       |                                |
|------------------------|------------|--|-------------------|-----------------------|--------------------------------|
|                        |            |  | compounds         | mg/kg/day             | into lactation                 |
| Calcium Nitrate        | Ingestion  | Not classified for male reproduction   | similar compounds | NOAEL 1,500 mg/kg/day | 28 days                        |
| Calcium Nitrate        | Ingestion  | Not classified for development         | similar compounds | NOAEL 1,500 mg/kg/day | prematuring into lactation     |
| N-Aminoethylpiperazine | Ingestion  | Not classified for female reproduction | Rat               | NOAEL 598 mg/kg/day   | prematuring & during gestation |
| N-Aminoethylpiperazine | Ingestion  | Not classified for male reproduction   | Rat               | NOAEL 409 mg/kg/day   | 32 days                        |
| N-Aminoethylpiperazine | Ingestion  | Not classified for development         | Rat               | NOAEL 899 mg/kg/day   | prematuring & during gestation |
| 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         |

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

| Name  | Route      | Target Organ(s)                   | Value  | Species                | Test Result         | Exposure Duration      |
|---|------------|-----------------------------------|--|------------------------|---------------------|------------------------|
| Bis(3-Aminopropyl) Ether of Diethylene Glycol | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                        |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol     | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification |                        | NOAEL Not available |                        |
| Calcium Nitrate                               | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                        |
| N-Aminoethylpiperazine                        | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for 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 |

**Specific Target Organ Toxicity - repeated exposure**

| Name  | Route      | Target Organ(s)   | Value          | Species | Test Result         | Exposure Duration     |
|---|------------|---|----------------|---------|---------------------|-----------------------|
| Fused Silica                                    | Inhalation | respiratory system   silicosis  | Not classified | Human   | NOAEL Not available | occupational exposure |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol       | Dermal     | skin   liver   nervous system   auditory system   hematopoietic system   eyes | Not classified | Rat     | NOAEL 125 mg/kg/day | 28 days               |
| Dimethyl Siloxane, Reaction Product with Silica | Inhalation | respiratory system   silicosis  | Not classified | Human   | NOAEL Not available | occupational exposure |
| Calcium Nitrate                                 | Ingestion  | heart   skin  | Not classified | similar | NOAEL               | 28 days               |

|                        |            |  |  |                         |                       |                        |
|------------------------|------------|--|--|-------------------------|-----------------------|------------------------|
|                        |            | endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system |  | compounds               | 1,500 mg/kg/day       |                        |
| N-Aminoethylpiperazine | Ingestion  | heart   endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder   | Not classified   | Rat                     | NOAEL 598 mg/kg/day   | 28 days                |
| Toluene                | Inhalation | auditory system   nervous system   eyes   olfactory system   | Causes damage to organs through 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 animal species | NOAEL 11.3 mg/l       | 15 weeks               |
| 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                |

**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. 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**

Hazard Not Otherwise Classified (HNOC)

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):**

| <u>Ingredient</u>   | <u>C.A.S. No</u> | <u>% by Wt</u> |
|---|------------------|----------------|
| Calcium Nitrate (NITRATE COMPOUNDS (WATER DISSOCIABLE; REPORTABLE ONLY WHEN IN AQUEOUS SOLUTION)) | 10124-37-5       | 1 - 2.5        |

**15.2. State Regulations**

Contact 3M for more information.

**California Proposition 65**

| <b><u>Ingredient</u></b>                                    | <b><u>C.A.S. No.</u></b> | <b><u>Listing</u></b> |
|---|--------------------------|-----------------------|
| SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) | None                     | Carcinogen            |
| Toluene   | 108-88-3                 | Developmental Toxin   |

**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:** 3 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

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

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