



## Safety Data Sheet

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| <b>Document Group:</b> | 30-3496-4 | <b>Version Number:</b>  | 2.03     |
| <b>Issue Date:</b>     | 10/08/25  | <b>Supersedes Date:</b> | 09/09/25 |

### Product identifier

3M(TM) Scotch-Weld(TM) Toughened Epoxy Adhesive LSB60NS, Gray

### ID Number(s):

62-3562-3532-5, 62-3562-3537-4

7010330230, 7000046491

### Recommended use

Structural adhesive

### Supplier's details

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

### 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:**

30-3487-3, 30-3492-3

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 30-3487-3 | <b>Version Number:</b>  | 4.07     |
| <b>Issue Date:</b>     | 10/08/25  | <b>Supersedes Date:</b> | 09/09/25 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Toughened Epoxy Adhesive LSB60NS, Gray , Part A

#### Product Identification Numbers

62-3662-8532-8, 62-3662-9532-7, 62-3662-9533-5  
7100079533, 7100082020, 7100198360

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

##### Recommended use

Structural adhesive

#### 1.3. Supplier's details

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Skin Corrosion/Irritation: Category 1C.  
Serious Eye Damage/Irritation: Category 1.  
Skin Sensitizer: Category 1.  
Reproductive Toxicity: Category 1B.  
Specific Target Organ Toxicity (single exposure): Category 1.

#### 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 damage fertility or the unborn child.  
Causes damage to organs: blood or blood-forming organs.

**Precautionary statements****Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe vapors.  
Wash exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection, face protection, and if needed, respiratory protection (see SDS Section 8).

**Response:**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Immediately call a POISON CENTER or doctor.  
Specific treatment (see Notes to Physician on this label).  
If skin irritation or rash occurs: Get medical attention.  
Take off contaminated clothing and wash it before reuse.

**Storage:**

Store locked up.

**Disposal:**

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

**Notes to Physician:**

Overexposure to this product may result in methemoglobinemia. Methemoglobinemia may be clinically suspected by the presence of clinical "cyanosis" in the presence of a normal PaO<sub>2</sub> (as obtained by arterial blood gases). Routine pulse oximetry may be inaccurate for monitoring oxygen saturation in the presence of methemoglobinemia, and should not be used to make the diagnosis of this disorder. If the patient is symptomatic or if the methemoglobin level is >20%, specific therapy with methylene blue should be considered as part of the medical management.

**2.3. Hazards not otherwise classified**

May cause chemical gastrointestinal burns.

**Supplemental Information:**

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

## SECTION 3: Composition/information on ingredients

| Ingredient                                     | C.A.S. No.    | % by Wt                  |
|------------------------------------------------|---------------|--------------------------|
| Fillers (NJTS Reg. No. 04499600-6886)          | Trade Secret* | 20 - 40                  |
| Aliphatic Polymer Diamine                      | 68911-25-1    | 10 - 30 Trade Secret *   |
| Poly(oxypropylene)diamine                      | 9046-10-0     | 10 - 30 Trade Secret *   |
| Benzoate Ester                                 | 131298-44-7   | 1 - 20                   |
| Acrylate Polymer (NJTS Reg. No. 04499600-6887) | Trade Secret* | 1 - 20                   |
| 2,4,6-Tris((dimethylamino)methyl)phenol        | 90-72-2       | 1 - 5 Trade Secret *     |
| bis(3-aminopropyl)ether of diethylene glycol   | 4246-51-9     | 0.1 - 1.5 Trade Secret * |
| Nitric acid, ammonium calcium salt             | 15245-12-2    | 0.5 - 1.5 Trade Secret * |
| Titanium Dioxide                               | 13463-67-7    | 0.1 - < 1 Trade Secret * |
| Quartz Silica                                  | 14808-60-7    | < 0.2                    |
| Toluene                                        | 108-88-3      | < 0.2                    |

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin Contact:

Immediately 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

Skin burns (localized redness, swelling, itching, intense pain, blistering, and tissue destruction). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Target organ effects. See Section 11 for additional details.

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

Overexposure to this product may result in methemoglobinemia. Methemoglobinemia may be clinically suspected by the presence of clinical "cyanosis" in the presence of a normal PaO<sub>2</sub> (as obtained by arterial blood gases). Routine pulse oximetry may be inaccurate for monitoring oxygen saturation in the presence of methemoglobinemia, and should not be used to make the diagnosis of this disorder. If the patient is symptomatic or if the methemoglobin level is >20%, specific therapy with methylene blue should be considered as part of the medical management.

## 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**

Aldehydes

Hydrocarbons

Carbon monoxide

Carbon dioxide

Ketones

**Condition**

During Combustion

During Combustion

During Combustion

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**

Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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 in accordance with applicable local/regional/national/international regulations.

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

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

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

Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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

| Ingredient                                                  | C.A.S. No.   | Agency | Limit type                                                                                                                                          | Additional Comments                         |
|-------------------------------------------------------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Toluene                                                     | 108-88-3     | ACGIH  | TWA:20 ppm                                                                                                                                          | A4: Not class. as human carcin, Ototoxicant |
| Toluene                                                     | 108-88-3     | OSHA   | TWA:200 ppm;CEIL:300 ppm                                                                                                                            |                                             |
| Titanium Dioxide                                            | 13463-67-7   | ACGIH  | TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3                                                         | A3: Confirmed animal carcin.                |
| Titanium Dioxide                                            | 13463-67-7   | OSHA   | TWA(as total dust):15 mg/m3                                                                                                                         |                                             |
| Quartz Silica                                               | 14808-60-7   | OSHA   | TWA Table Z-1(respirable):0.05 mg/m3;TWA Table Z-3(respirable):0.1 mg/m3;TWA concentration(respirable):0.1 mg/m3(2.4 millions of particles/cu. ft.) |                                             |
| SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) | 14808-60-7   | ACGIH  | TWA(respirable fraction):0.025 mg/m3                                                                                                                | A2: Suspected human carcin.                 |
| Fillers (NJTS Reg. No. 04499600-6886)                       | Trade Secret | ACGIH  | TWA(inhalable particulates):10 mg/m3                                                                                                                |                                             |
| Fillers (NJTS Reg. No. 04499600-6886)                       | Trade Secret | ACGIH  | TWA(respirable particles):3 mg/m3                                                                                                                   |                                             |
| Fillers (NJTS Reg. No. 04499600-6886)                       | Trade Secret | OSHA   | TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3                                                                                        |                                             |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

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

##### Eye/face protection

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

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.

For prolonged or repeated contact, gloves made from the following material(s) are recommended (breakthrough times are >4 hours): Butyl Rubber, Nitrile Rubber

Any glove recommended for prolonged/repeated contact is also suitable for short-term/splash contact.

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

**Respiratory protection**

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                          |                                              |
|----------------------------------------------------------|----------------------------------------------|
| <b>Physical state</b>                                    | Liquid                                       |
| <b>Specific Physical Form:</b>                           | Viscous                                      |
| <b>Color</b>                                             | White                                        |
| <b>Odor</b>                                              | Moderate Amine                               |
| <b>Odor threshold</b>                                    | <i>No Data Available</i>                     |
| <b>pH</b>                                                | <i>Not Applicable</i>                        |
| <b>Melting point/Freezing point</b>                      | <i>No Data Available</i>                     |
| <b>Boiling point/Initial boiling point/Boiling range</b> | <i>Not Applicable</i>                        |
| <b>Flash Point</b>                                       | ≥115.6 °C [ <i>Test Method: Closed Cup</i> ] |
| <b>Evaporation rate</b>                                  | <i>Not Applicable</i>                        |
| <b>Flammability</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>                                    | ≤4 Pa [ <i>@ 20 °C</i> ]                     |
| <b>Relative Vapor Density</b>                            | <i>No Data Available</i>                     |
| <b>Density</b>                                           | 1.17 g/ml                                    |
| <b>Relative Density</b>                                  | 1.17 [ <i>Ref Std: WATER=1</i> ]             |
| <b>Water solubility</b>                                  | Insoluble                                    |
| <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>Kinematic Viscosity</b>                           | 76,923 - 85,470 mm <sup>2</sup> /sec                                                              |
| <b>Volatile Organic Compounds</b>                    | No Data Available                                                                                 |
| <b>Percent volatile</b>                              | No Data Available                                                                                 |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | < 1 g/l [Test Method:calculated per EPA method 24]<br>[Details:when used as intended with Part B] |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | < 2 g/l [Test Method:calculated per EPA method 24] [Details:as supplied]                          |
| <b>VOC Less H<sub>2</sub>O &amp; Exempt Solvents</b> | < 0.1 % [Test Method:calculated per EPA method 24]<br>[Details:when used as intended with Part B] |
| <b>Molecular weight</b>                              | No Data Available                                                                                 |

|                                 |                |
|---------------------------------|----------------|
| <b>Particle Characteristics</b> | Not Applicable |
|---------------------------------|----------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

### 10.5. Incompatible materials

Strong acids

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:**

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:**

##### **Single exposure may cause target organ effects:**

Methemoglobinemia: Signs/symptoms may include headache, dizziness, nausea, difficulty breathing, and generalized weakness.

##### **Reproductive/Developmental Toxicity:**

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

#### **Carcinogenicity:**

| <b>Ingredient</b>                                               | <b>CAS No.</b> | <b>Class Description</b>       | <b>Regulation</b>                           |
|-----------------------------------------------------------------|----------------|--------------------------------|---------------------------------------------|
| Silica, Crystalline (Respirable Size)                           | 14808-60-7     | Known To Be Human Carcinogen.  | National Toxicology Program Carcinogens     |
| Silica dust, crystalline, in the form of quartz or cristobalite | 14808-60-7     | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Titanium dioxide                                                | 13463-67-7     | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |

#### **Additional Information:**

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

#### **Toxicological Data**

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

#### **Acute Toxicity**

| <b>Name</b>                           | <b>Route</b>                   | <b>Species</b> | <b>Value</b>                                            |
|---------------------------------------|--------------------------------|----------------|---------------------------------------------------------|
| Overall product                       | Dermal                         |                | No data available; calculated ATE >5,000 mg/kg          |
| Overall product                       | Ingestion                      |                | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Fillers (NJTS Reg. No. 04499600-6886) | Dermal                         | Rat            | LD50 > 2,000 mg/kg                                      |
| Fillers (NJTS Reg. No. 04499600-6886) | Inhalation-Dust/Mist (4 hours) | Rat            | LC50 3 mg/l                                             |
| Fillers (NJTS Reg. No. 04499600-6886) | Ingestion                      | Rat            | LD50 6,450 mg/kg                                        |
| Poly(oxypropylene)diamine             | Dermal                         | Rabbit         | LD50 2,980 mg/kg                                        |
| Poly(oxypropylene)diamine             | Ingestion                      | Rat            | LD50 2,885 mg/kg                                        |
| Aliphatic Polymer Diamine             | Dermal                         | Rat            | LD50 > 2,000 mg/kg                                      |

|                                                |                                |                   |                                    |
|------------------------------------------------|--------------------------------|-------------------|------------------------------------|
| Aliphatic Polymer Diamine                      | Ingestion                      | Rat               | LD50 > 2,000 mg/kg                 |
| Benzoate Ester                                 | Dermal                         | Rabbit            | LD50 > 2,000 mg/kg                 |
| Benzoate Ester                                 | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 5.5 mg/l                    |
| Benzoate Ester                                 | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                 |
| Acrylate Polymer (NJTS Reg. No. 04499600-6887) | Dermal                         |                   | LD50 estimated to be > 5,000 mg/kg |
| Acrylate Polymer (NJTS Reg. No. 04499600-6887) | Ingestion                      | Rat               | LD50 > 5,000 mg/kg                 |
| 2,4,6-Tris((dimethylamino)methyl)phenol        | Dermal                         | Rat               | LD50 1,280 mg/kg                   |
| 2,4,6-Tris((dimethylamino)methyl)phenol        | Ingestion                      | Rat               | LD50 1,000 mg/kg                   |
| Nitric acid, ammonium calcium salt             | Ingestion                      | Rat               | LD50 >300, <2000 mg/kg             |
| Nitric acid, ammonium calcium salt             | Dermal                         | similar compounds | LD50 > 2,000 mg/kg                 |
| bis(3-aminopropyl)ether of diethylene glycol   | Dermal                         | Rabbit            | LD50 2,525 mg/kg                   |
| bis(3-aminopropyl)ether of diethylene glycol   | Ingestion                      | Rat               | LD50 2,850 mg/kg                   |
| Titanium Dioxide                               | Dermal                         | Rabbit            | LD50 > 10,000 mg/kg                |
| Titanium Dioxide                               | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 6.82 mg/l                   |
| Titanium Dioxide                               | Ingestion                      | Rat               | LD50 > 10,000 mg/kg                |
| 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                   |
| Quartz Silica                                  | Dermal                         |                   | LD50 estimated to be > 5,000 mg/kg |
| Quartz Silica                                  | Ingestion                      |                   | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                         | Species                | Value                     |
|----------------------------------------------|------------------------|---------------------------|
| Fillers (NJTS Reg. No. 04499600-6886)        | Rabbit                 | No significant irritation |
| Poly(oxypropylene)diamine                    | Rabbit                 | Corrosive                 |
| Aliphatic Polymer Diamine                    | Rat                    | Irritant                  |
| Benzoate Ester                               | Rabbit                 | Minimal irritation        |
| 2,4,6-Tris((dimethylamino)methyl)phenol      | Rabbit                 | Corrosive                 |
| Nitric acid, ammonium calcium salt           | similar compounds      | No significant irritation |
| bis(3-aminopropyl)ether of diethylene glycol | Rabbit                 | Corrosive                 |
| Titanium Dioxide                             | Rabbit                 | No significant irritation |
| Toluene                                      | Rabbit                 | Irritant                  |
| Quartz Silica                                | Professional judgement | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                         | Species       | Value                     |
|----------------------------------------------|---------------|---------------------------|
| Fillers (NJTS Reg. No. 04499600-6886)        | Rabbit        | No significant irritation |
| Poly(oxypropylene)diamine                    | Rabbit        | Corrosive                 |
| Aliphatic Polymer Diamine                    | In vitro data | Severe irritant           |
| Benzoate Ester                               | Rabbit        | Mild irritant             |
| 2,4,6-Tris((dimethylamino)methyl)phenol      | Rabbit        | Corrosive                 |
| Nitric acid, ammonium calcium salt           | Rabbit        | Corrosive                 |
| bis(3-aminopropyl)ether of diethylene glycol | Rabbit        | Corrosive                 |
| Titanium Dioxide                             | Rabbit        | No significant irritation |
| Toluene                                      | Rabbit        | Moderate irritant         |

**Skin Sensitization**

| Name                                         | Species               | Value          |
|----------------------------------------------|-----------------------|----------------|
| Poly(oxypropylene)diamine                    | Guinea pig            | Not classified |
| Aliphatic Polymer Diamine                    | Guinea pig            | Sensitizing    |
| Benzoate Ester                               | Guinea pig            | Not classified |
| 2,4,6-Tris((dimethylamino)methyl)phenol      | Guinea pig            | Not classified |
| Nitric acid, ammonium calcium salt           | Mouse                 | Not classified |
| bis(3-aminopropyl)ether of diethylene glycol | Professional judgment | Sensitizing    |
| Titanium Dioxide                             | Human and animal      | Not classified |
| 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                                                                        |
|----------------------------------------------|----------|------------------------------------------------------------------------------|
| Poly(oxypropylene)diamine                    | In Vitro | Not mutagenic                                                                |
| Poly(oxypropylene)diamine                    | In vivo  | Not mutagenic                                                                |
| Aliphatic Polymer Diamine                    | In Vitro | Not mutagenic                                                                |
| Benzoate Ester                               | In Vitro | Not mutagenic                                                                |
| Benzoate Ester                               | In vivo  | Not mutagenic                                                                |
| 2,4,6-Tris((dimethylamino)methyl)phenol      | In Vitro | Not mutagenic                                                                |
| Nitric acid, ammonium calcium salt           | In Vitro | Not mutagenic                                                                |
| bis(3-aminopropyl)ether of diethylene glycol | In Vitro | Not mutagenic                                                                |
| Titanium Dioxide                             | In Vitro | Not mutagenic                                                                |
| Titanium Dioxide                             | In vivo  | Not mutagenic                                                                |
| Toluene                                      | In Vitro | Not mutagenic                                                                |
| Toluene                                      | In vivo  | Not mutagenic                                                                |
| Quartz Silica                                | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Quartz Silica                                | In vivo  | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name             | Route      | Species                 | Value                                                                        |
|------------------|------------|-------------------------|------------------------------------------------------------------------------|
| Titanium Dioxide | Ingestion  | Multiple animal species | Not carcinogenic                                                             |
| Titanium Dioxide | Inhalation | Rat                     | Carcinogenic                                                                 |
| 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 |
| Quartz Silica    | Inhalation | Human and animal        | Carcinogenic                                                                 |

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

| Name                                         | Route      | Value                                  | Species | Test Result           | Exposure Duration            |
|----------------------------------------------|------------|----------------------------------------|---------|-----------------------|------------------------------|
| Fillers (NJTS Reg. No. 04499600-6886)        | Ingestion  | Not classified for development         | Rat     | NOAEL 625 mg/kg/day   | premating & during gestation |
| Poly(oxypropylene)diamine                    | Dermal     | Not classified for female reproduction | Rat     | NOAEL 30 mg/kg/day    | premating & during gestation |
| Poly(oxypropylene)diamine                    | Dermal     | Not classified for male reproduction   | Rat     | NOAEL 30 mg/kg/day    | premating & during gestation |
| Poly(oxypropylene)diamine                    | Dermal     | Not classified for development         | Rat     | NOAEL 30 mg/kg/day    | premating & during gestation |
| Aliphatic Polymer Diamine                    | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | premating into lactation     |
| Aliphatic Polymer Diamine                    | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 29 days                      |
| Aliphatic Polymer Diamine                    | Ingestion  | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | premating into lactation     |
| Benzoate Ester                               | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 641 mg/kg/day   | 2 generation                 |
| Benzoate Ester                               | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 676 mg/kg/day   | 2 generation                 |
| Benzoate Ester                               | Ingestion  | Not classified for development         | Rat     | NOAEL 191 mg/kg/day   | 2 generation                 |
| 2,4,6-Tris((dimethylamino)methyl)phenol      | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 150 mg/kg/day   | 2 generation                 |
| 2,4,6-Tris((dimethylamino)methyl)phenol      | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 50 mg/kg/day    | 2 generation                 |
| 2,4,6-Tris((dimethylamino)methyl)phenol      | Ingestion  | Not classified for development         | Rabbit  | NOAEL 15 mg/kg/day    | during gestation             |
| bis(3-aminopropyl)ether of diethylene glycol | Ingestion  | Not classified for female reproduction | Rat     | NOAEL 600 mg/kg/day   | premating into lactation     |
| bis(3-aminopropyl)ether of diethylene glycol | Ingestion  | Not classified for male reproduction   | Rat     | NOAEL 600 mg/kg/day   | 59 days                      |
| bis(3-aminopropyl)ether of diethylene glycol | Ingestion  | Not classified for development         | Rat     | NOAEL 600 mg/kg/day   | premating into lactation     |
| 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 |
|-----------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------------|---------------------|-------------------|
| Fillers (NJTS Reg. No. 04499600-6886)   | Inhalation | respiratory system                | Not classified                                                               | Rat                    | NOAEL 0.812 mg/l    | 90 minutes        |
| Poly(oxypropylene)diamine               | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Aliphatic Polymer Diamine               | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | Irritation Positive |                   |
| Aliphatic Polymer Diamine               | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Rat                    | NOAEL Not available |                   |
| 2,4,6-Tris((dimethylamino)methyl)phenol | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Nitric acid, ammonium                   | Inhalation | respiratory irritation            | Some positive data exist, but the                                            | similar                | NOAEL Not available |                   |

|                                              |            |                                   |                                                                              |                        |                     |                        |
|----------------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------------|---------------------|------------------------|
| calcium salt                                 |            |                                   | data are not sufficient for classification                                   | health hazards         | available           |                        |
| Nitric acid, ammonium calcium salt           | Ingestion  | methemoglobinemia                 | Causes damage to organs                                                      | similar compounds      | NOAEL Not available |                        |
| bis(3-aminopropyl)ether of diethylene glycol | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | similar health hazards | 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     |
|-----------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------|-----------------------|-----------------------|
| Fillers (NJTS Reg. No. 04499600-6886)   | Inhalation | respiratory system                                                                                                                                                                                                                         | Not classified | Human   | NOAEL Not available   | occupational exposure |
| Aliphatic Polymer Diamine               | Ingestion  | heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 29 days               |
| Benzoate Ester                          | Ingestion  | heart   skin   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | Rat     | NOAEL 619 mg/kg/day   | 91 days               |
| 2,4,6-Tris((dimethylamino)methyl)phenol | Dermal     | skin                                                                                                                                                                                                                                       | Not classified | Rat     | NOAEL 25 mg/kg/day    | 4 weeks               |
| 2,4,6-Tris((dimethylamino)methyl)phenol | Dermal     | liver   nervous system   auditory system   hematopoietic system   eyes                                                                                                                                                                     | Not classified | Rat     | NOAEL 125 mg/kg/day   | 4 weeks               |
| 2,4,6-Tris((dimethylamino)methyl)phenol | Ingestion  | heart   endocrine system   hematopoietic system   liver   muscles   nervous system   kidney and/or bladder   respiratory system   vascular system                                                                                          | Not classified | Rat     | NOAEL 150 mg/kg/day   | 90 days               |

|                                                 |            |                                                                                                                                                                                                                                                                         |                                                                                    |                               |                             |                           |
|-------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------|-----------------------------|---------------------------|
|                                                 |            | auditory system  <br>skin  <br>gastrointestinal tract<br>  bone, teeth, nails,<br>and/or hair  <br>immune system  <br>eyes                                                                                                                                              |                                                                                    |                               |                             |                           |
| bis(3-aminopropyl)ether of<br>diethylene glycol | Ingestion  | gastrointestinal tract<br>  heart   endocrine<br>system   bone, teeth,<br>nails, and/or hair  <br>hematopoietic<br>system   liver  <br>immune system  <br>muscles   nervous<br>system   eyes  <br>kidney and/or<br>bladder   respiratory<br>system   vascular<br>system | Not classified                                                                     | Rat                           | NOAEL 600<br>mg/kg/day      | 59 days                   |
| Titanium Dioxide                                | Inhalation | respiratory system                                                                                                                                                                                                                                                      | Some positive data exist, but the<br>data are not sufficient for<br>classification | Rat                           | LOAEL 0.01<br>mg/l          | 2 years                   |
| Titanium Dioxide                                | Inhalation | pulmonary fibrosis                                                                                                                                                                                                                                                      | Not classified                                                                     | Human                         | NOAEL Not<br>available      | occupational<br>exposure  |
| Toluene                                         | Inhalation | auditory system  <br>nervous system  <br>eyes   olfactory<br>system                                                                                                                                                                                                     | Causes damage to organs through<br>prolonged or repeated exposure                  | Human                         | NOAEL Not<br>available      | poisoning<br>and/or abuse |
| Toluene                                         | Inhalation | respiratory system                                                                                                                                                                                                                                                      | Some positive data exist, but the<br>data are not sufficient for<br>classification | Rat                           | LOAEL 2.3<br>mg/l           | 15 months                 |
| Toluene                                         | Inhalation | heart   liver   kidney<br>and/or bladder                                                                                                                                                                                                                                | Not classified                                                                     | Rat                           | NOAEL 11.3<br>mg/l          | 15 weeks                  |
| Toluene                                         | Inhalation | endocrine system                                                                                                                                                                                                                                                        | Not classified                                                                     | Rat                           | NOAEL 1.1<br>mg/l           | 4 weeks                   |
| Toluene                                         | Inhalation | immune system                                                                                                                                                                                                                                                           | Not classified                                                                     | Mouse                         | NOAEL Not<br>available      | 20 days                   |
| Toluene                                         | Inhalation | bone, teeth, nails,<br>and/or hair                                                                                                                                                                                                                                      | Not classified                                                                     | Mouse                         | NOAEL 1.1<br>mg/l           | 8 weeks                   |
| Toluene                                         | Inhalation | hematopoietic<br>system   vascular<br>system                                                                                                                                                                                                                            | Not classified                                                                     | Human                         | NOAEL Not<br>available      | occupational<br>exposure  |
| Toluene                                         | Inhalation | gastrointestinal tract                                                                                                                                                                                                                                                  | Not classified                                                                     | Multiple<br>animal<br>species | NOAEL 11.3<br>mg/l          | 15 weeks                  |
| Toluene                                         | Ingestion  | nervous system                                                                                                                                                                                                                                                          | Some positive data exist, but the<br>data are not sufficient for<br>classification | Rat                           | NOAEL 625<br>mg/kg/day      | 13 weeks                  |
| Toluene                                         | Ingestion  | heart                                                                                                                                                                                                                                                                   | Not classified                                                                     | Rat                           | NOAEL<br>2,500<br>mg/kg/day | 13 weeks                  |
| Toluene                                         | Ingestion  | liver   kidney and/or<br>bladder                                                                                                                                                                                                                                        | Not classified                                                                     | Multiple<br>animal<br>species | NOAEL<br>2,500<br>mg/kg/day | 13 weeks                  |
| Toluene                                         | Ingestion  | hematopoietic<br>system                                                                                                                                                                                                                                                 | Not classified                                                                     | Mouse                         | NOAEL 600<br>mg/kg/day      | 14 days                   |
| Toluene                                         | Ingestion  | endocrine system                                                                                                                                                                                                                                                        | Not classified                                                                     | Mouse                         | NOAEL 105<br>mg/kg/day      | 28 days                   |
| Toluene                                         | Ingestion  | immune system                                                                                                                                                                                                                                                           | Not classified                                                                     | Mouse                         | NOAEL 105<br>mg/kg/day      | 4 weeks                   |
| Quartz Silica                                   | Inhalation | silicosis                                                                                                                                                                                                                                                               | Causes damage to organs through<br>prolonged or repeated exposure                  | Human                         | NOAEL Not<br>available      | occupational<br>exposure  |

**Aspiration Hazard**

| Name                      | Value                                                         |
|---------------------------|---------------------------------------------------------------|
| Poly(oxypropylene)diamine | Some positive data exist, but the data are not sufficient for |

|         |                   |
|---------|-------------------|
|         | classification    |
| 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.

EPA Hazardous Waste Number (RCRA): D018 (Benzene)

## 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)

## 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

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

Contact 3M for more information.

## 15.4. International Regulations

Contact 3M for more information.

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

## SECTION 16: Other information

### NFPA Hazard Classification

**Health:** 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.

**Document Group:** 30-3487-3

**Version Number:** 4.07

**Issue Date:** 10/08/25

**Supersedes Date:** 09/09/25

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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 30-3492-3 | <b>Version Number:</b>  | 4.05     |
| <b>Issue Date:</b>     | 10/08/25  | <b>Supersedes Date:</b> | 09/09/25 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Scotch-Weld(TM) Toughened Epoxy Adhesive LSB60NS, Gray , Part B

#### Product Identification Numbers

62-3562-8532-0, 62-3562-9532-9, 62-3562-9533-7  
7100082021, 7100079534, 7100198390

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

##### Recommended use

Structural adhesive

#### 1.3. Supplier's details

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Industrial Adhesives and Tapes Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA |
| <b>Telephone:</b>    | 1-888-3M HELPS (1-888-364-3577)         |

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark |

##### Pictograms

**Hazard Statements**

Causes eye irritation.  
May cause an allergic skin reaction.

**Precautionary statements****Prevention:**

Avoid breathing vapors.  
Wash exposed skin thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists or if skin irritation or rash occurs: Get medical attention.  
Take off contaminated clothing and wash it before reuse.

**Disposal:**

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

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

| Ingredient                                                | C.A.S. No.    | % by Wt                 |
|-----------------------------------------------------------|---------------|-------------------------|
| Epoxy Resin                                               | 25068-38-6    | 80 - 100 Trade Secret * |
| SILANE, TRIMETHOXYOCTYL-, HYDROLYSIS PRODUCTS WITH SILICA | 92797-60-9    | 1 - 15                  |
| Fillers (NJTS Reg. No. 04499600-6886)                     | Trade Secret* | 1 - 15                  |

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:**

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**

Allergic skin reaction (redness, swelling, blistering, and itching).

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

Not applicable

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

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

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

None inherent in this product.

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

Aldehydes  
Carbon monoxide  
Carbon dioxide  
Hydrogen Chloride

**Condition**

During Combustion  
During Combustion  
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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

**6.2. Environmental precautions**

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

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

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. 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.)

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

Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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

| Ingredient                            | C.A.S. No.   | Agency | Limit type                                                                            | Additional Comments |
|---------------------------------------|--------------|--------|---------------------------------------------------------------------------------------|---------------------|
| SILICA, AMORPHOUS                     | 92797-60-9   | OSHA   | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup>          |                     |
| Fillers (NJTS Reg. No. 04499600-6886) | Trade Secret | ACGIH  | TWA(inhalable particulates):10 mg/m <sup>3</sup>                                      |                     |
| Fillers (NJTS Reg. No. 04499600-6886) | Trade Secret | ACGIH  | TWA(respirable particles):3 mg/m <sup>3</sup>                                         |                     |
| Fillers (NJTS Reg. No. 04499600-6886) | Trade Secret | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup> |                     |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

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

##### Eye/face protection

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

Safety Glasses with side shields

Indirect Vented Goggles

##### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the

substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                   |                                                                                                   |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Physical state                                    | Liquid                                                                                            |
| Specific Physical Form:                           | Paste                                                                                             |
| Color                                             | Black                                                                                             |
| Odor                                              | Mild Epoxy                                                                                        |
| Odor threshold                                    | No Data Available                                                                                 |
| pH                                                | Not Applicable                                                                                    |
| Melting point/Freezing point                      | No Data Available                                                                                 |
| Boiling point/Initial boiling point/Boiling range | Not Applicable                                                                                    |
| Flash Point                                       | > 121.1 °C [Test Method:Closed Cup]                                                               |
| Evaporation rate                                  | Not Applicable                                                                                    |
| Flammability                                      | Not Applicable                                                                                    |
| Flammable Limits(LEL)                             | Not Applicable                                                                                    |
| Flammable Limits(UEL)                             | Not Applicable                                                                                    |
| Vapor Pressure                                    | <=4 Pa [@ 77 °C ]                                                                                 |
| Relative Vapor Density                            | Negligible                                                                                        |
| Density                                           | 1.21 g/ml                                                                                         |
| Relative Density                                  | 1.21 [Ref Std:WATER=1]                                                                            |
| Water solubility                                  | Nil                                                                                               |
| Solubility- non-water                             | No Data Available                                                                                 |
| Partition coefficient: n-octanol/ water           | No Data Available                                                                                 |
| Autoignition temperature                          | No Data Available                                                                                 |
| Decomposition temperature                         | No Data Available                                                                                 |
| Kinematic Viscosity                               | 24,500 mm <sup>2</sup> /sec                                                                       |
| Volatile Organic Compounds                        | No Data Available                                                                                 |
| Percent volatile                                  | No Data Available                                                                                 |
| VOC Less H <sub>2</sub> O & Exempt Solvents       | < 1 g/l [Test Method:calculated per EPA method 24]<br>[Details:when used as intended with Part A] |
| VOC Less H <sub>2</sub> O & Exempt Solvents       | 10.8 g/l [Test Method:calculated per EPA method 24] [Details:as                                   |

|                                |                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------|
|                                | supplied]                                                                                         |
| VOC Less H2O & Exempt Solvents | < 0.1 % [Test Method:calculated per EPA method 24]<br>[Details:when used as intended with Part A] |
| Molecular weight               | No Data Available                                                                                 |

|                          |                |
|--------------------------|----------------|
| Particle Characteristics | Not Applicable |
|--------------------------|----------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

### 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

### 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.

#### Skin Contact:

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

**Eye Contact:**

Moderate 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.

**Toxicological Data**

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

**Acute Toxicity**

| Name                                                      | Route                          | Species | Value                                          |
|-----------------------------------------------------------|--------------------------------|---------|------------------------------------------------|
| Overall product                                           | Ingestion                      |         | No data available; calculated ATE >5,000 mg/kg |
| Epoxy Resin                                               | Dermal                         | Rat     | LD50 > 1,600 mg/kg                             |
| Epoxy Resin                                               | Ingestion                      | Rat     | LD50 > 1,000 mg/kg                             |
| SILANE, TRIMETHOXYOCTYL-, HYDROLYSIS PRODUCTS WITH SILICA | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| SILANE, TRIMETHOXYOCTYL-, HYDROLYSIS PRODUCTS WITH SILICA | Ingestion                      | Rat     | LD50 > 5,340 mg/kg                             |
| Fillers (NJTS Reg. No. 04499600-6886)                     | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |
| Fillers (NJTS Reg. No. 04499600-6886)                     | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 3 mg/l                                    |
| Fillers (NJTS Reg. No. 04499600-6886)                     | Ingestion                      | Rat     | LD50 6,450 mg/kg                               |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                                  | Species | Value                     |
|---------------------------------------|---------|---------------------------|
| Epoxy Resin                           | Rabbit  | Mild irritant             |
| Fillers (NJTS Reg. No. 04499600-6886) | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name                                  | Species | Value                     |
|---------------------------------------|---------|---------------------------|
| Epoxy Resin                           | Rabbit  | Moderate irritant         |
| Fillers (NJTS Reg. No. 04499600-6886) | Rabbit  | No significant irritation |

**Skin Sensitization**

| Name        | Species          | Value       |
|-------------|------------------|-------------|
| Epoxy Resin | Human and animal | Sensitizing |

**Respiratory Sensitization**

| Name        | Species | Value          |
|-------------|---------|----------------|
| Epoxy Resin | Human   | Not classified |

**Germ Cell Mutagenicity**

| Name        | Route    | Value                                                                        |
|-------------|----------|------------------------------------------------------------------------------|
| Epoxy Resin | In vivo  | Not mutagenic                                                                |
| Epoxy Resin | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name        | Route  | Species | Value                                          |
|-------------|--------|---------|------------------------------------------------|
| Epoxy Resin | Dermal | 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            |
|---------------------------------------|-----------|----------------------------------------|---------|---------------------|------------------------------|
| Epoxy Resin                           | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750 mg/kg/day | 2 generation                 |
| Epoxy Resin                           | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 750 mg/kg/day | 2 generation                 |
| Epoxy Resin                           | Dermal    | Not classified for development         | Rabbit  | NOAEL 300 mg/kg/day | during organogenesis         |
| Epoxy Resin                           | Ingestion | Not classified for development         | Rat     | NOAEL 750 mg/kg/day | 2 generation                 |
| Fillers (NJTS Reg. No. 04499600-6886) | Ingestion | Not classified for development         | Rat     | NOAEL 625 mg/kg/day | premating & during gestation |

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

| Name                                  | Route      | Target Organ(s)    | Value          | Species | Test Result      | Exposure Duration |
|---------------------------------------|------------|--------------------|----------------|---------|------------------|-------------------|
| Fillers (NJTS Reg. No. 04499600-6886) | Inhalation | respiratory system | Not classified | Rat     | NOAEL 0.812 mg/l | 90 minutes        |

**Specific Target Organ Toxicity - repeated exposure**

| Name                                  | Route      | Target Organ(s)                                                                                          | Value          | Species | Test Result           | Exposure Duration     |
|---------------------------------------|------------|----------------------------------------------------------------------------------------------------------|----------------|---------|-----------------------|-----------------------|
| Epoxy Resin                           | Dermal     | liver                                                                                                    | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 2 years               |
| Epoxy Resin                           | Dermal     | nervous system                                                                                           | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 13 weeks              |
| Epoxy Resin                           | 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               |
| Fillers (NJTS Reg. No. 04499600-6886) | Inhalation | respiratory system                                                                                       | Not classified | Human   | NOAEL Not available   | occupational exposure |

**Aspiration Hazard**

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

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

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

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

**Chemical fate information**

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

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

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

**EPA Hazardous Waste Number (RCRA):** Not regulated

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Not Applicable.

##### Health Hazards

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

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

## SECTION 16: Other information

**NFPA Hazard Classification****Health:** 2 **Flammability:** 1 **Instability:** 1 **Special Hazards:** None

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

**Document Group:** 30-3492-3**Version Number:** 4.05**Issue Date:** 10/08/25**Supersedes Date:** 09/09/25

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