



## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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| <b>Issue Date:</b>     | 11/05/24  | <b>Supersedes Date:</b> | 03/12/24 |

### Product identifier

3M™ Scotch-Weld™ Structural Void Filling Compound EC-3550 B/A FST

### ID Number(s):

87-2500-0429-5, 87-2500-0430-3, 87-3300-0128-7, 87-3300-0129-5

7000133726, 7010304397, 7010401520, 7010352102

### Recommended use

Void Filling Compound

### Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions 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:**

29-2129-4, 29-2175-7

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 29-2129-4 | <b>Version Number:</b>  | 6.00     |
| <b>Issue Date:</b>     | 11/05/24  | <b>Supersedes Date:</b> | 01/13/23 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Structural Void Filling Compound EC-3550 B/A FST, Part A

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

##### Recommended use

Accelerator for two component void filling compound

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions 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

Corrosive to metal: Category 1.  
Serious Eye Damage/Irritation: Category 1.  
Skin Corrosion/Irritation: Category 1C.  
Skin Sensitizer: Category 1A.  
Reproductive Toxicity: Category 2.  
Germ Cell Mutagenicity: Category 2.  
Specific Target Organ Toxicity (single exposure): Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Corrosion | Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

May be corrosive to metals.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child.

Suspected of causing genetic defects.

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.

Keep only in original container.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves, protective clothing, and eye/face protection.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

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

**Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see Notes to Physician on this label).

Absorb spillage to prevent material damage.

**Storage:**

Store in a corrosive resistant container with a resistant inner liner.

Store locked up.

**Disposal:**

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

1% of the mixture consists of ingredients of unknown acute dermal toxicity.

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

| <b>Ingredient</b>                     | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|---------------------------------------|-------------------|------------------------|
| POLY(OXYPROPYLENE)DIAMINE             | 9046-10-0         | 25 - 40 Trade Secret * |
| Alumina Trihydrate                    | 21645-51-2        | 15 - 30                |
| Glass Bubbles                         | 65997-17-3        | 5 - 25                 |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2           | 5 - 10 Trade Secret *  |
| Epoxy Resin A                         | 9003-36-5         | < 10 Trade Secret *    |
| Epoxy Resin B                         | 25068-38-6        | < 5 Trade Secret *     |
| Limestone                             | 1317-65-3         | < 5                    |
| Zinc Borate                           | 138265-88-0       | < 5 Trade Secret *     |
| Calcium Salt                          | 13477-34-4        | < 3 Trade Secret *     |
| Treated Amorphous Silica              | 67762-90-7        | < 3                    |
| BIS[(DIMETHYLAMINO)METHYL]PHENOL      | 71074-89-0        | < 2 Trade Secret *     |

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

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

**Skin Contact:**

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

**Eye Contact:**

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

**If Swallowed:**

Rinse mouth. Do not induce vomiting. Get immediate medical attention.

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

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  
Carbon monoxide  
Carbon dioxide  
Hydrogen Chloride

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion

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

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

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

**6.2. Environmental precautions**

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

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

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. 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. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

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

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

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

Store away from heat. Keep only in original container. Store in a corrosive resistant container with a resistant inner liner. Store away from acids.

**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            |
|---|------------|-------------------------|--|--------------------------------|
| Limestone   | 1317-65-3  | OSHA                    | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup>  |                                |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles  | 1317-65-3  | ACGIH                   | TWA(inhalable particulates):10 mg/m <sup>3</sup>   |                                |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 1317-65-3  | ACGIH                   | TWA(respirable particles):3 mg/m <sup>3</sup>  |                                |
| Aluminum, insoluble compounds   | 21645-51-2 | ACGIH                   | TWA(respirable fraction):1 mg/m <sup>3</sup>   | A4: Not class. as human carcin |
| DUST, INERT OR NUISANCE   | 21645-51-2 | OSHA                    | TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m <sup>3</sup> );TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m <sup>3</sup> ) |                                |
| Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles  | 21645-51-2 | ACGIH                   | TWA(inhalable particulates):10 mg/m <sup>3</sup>   |                                |
| Particles (insoluble or poorly soluble) not otherwise specified, respirable particles | 21645-51-2 | ACGIH                   | TWA(respirable particles):3 mg/m <sup>3</sup>  |                                |
| Glass Bubbles   | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m <sup>3</sup> ;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m <sup>3</sup>                        |                                |
| SILICA, AMORPHOUS   | 67762-90-7 | OSHA                    | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 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:

Full Face Shield  
Indirect Vented Goggles

### Skin/hand protection

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

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

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

### Respiratory protection

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

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

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

#### Appearance

Physical state

Liquid

Color

White

Specific Physical Form:

Viscous

Odor

Low Ammoniacal

Odor threshold

No Data Available

pH

Not Applicable

Melting point

Not Applicable

Boiling Point

Not Applicable

Flash Point

>=200 °F [Test Method: Closed Cup]

Evaporation rate

No Data Available

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

Not Applicable

Flammable Limits(UEL)

Not Applicable

Vapor Pressure

Negligible

Vapor Density

No Data Available

Density

0.7 g/ml

Specific Gravity

0.5 - 0.7 [Ref Std: WATER=1]

Solubility in Water

Negligible

Solubility- non-water

No Data Available

Partition coefficient: n-octanol/ water

No Data Available

Autoignition temperature

No Data Available

Decomposition temperature

No Data Available

Viscosity

No Data Available

Molecular weight

No Data Available

Volatile Organic Compounds

<=1.1 g/l [Test Method: calculated SCAQMD rule 443.1]



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

No Data Available  
≤1.1 g/l [Test Method:calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

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

### 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.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### 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.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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.

**Genotoxicity:**

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

**Toxicological Data**

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

**Acute Toxicity**

| Name                                  | Route                          | Species | Value   |
|---------------------------------------|--------------------------------|---------|---|
| Overall product                       | Dermal                         |         | No data available; calculated ATE >5,000 mg/kg          |
| Overall product                       | Ingestion                      |         | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| POLY(OXYPROPYLENE)DIAMINE             | Dermal                         | Rabbit  | LD50 2,980 mg/kg  |
| POLY(OXYPROPYLENE)DIAMINE             | Ingestion                      | Rat     | LD50 2,885 mg/kg  |
| Alumina Trihydrate                    | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg                      |
| Alumina Trihydrate                    | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 2.3 mg/l   |
| Alumina Trihydrate                    | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                                      |
| Glass Bubbles                         | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg                      |
| Glass Bubbles                         | Ingestion                      |         | LD50 estimated to be 2,000 - 5,000 mg/kg                |
| 2,4,6-tris(dimethylaminomethyl)phenol | Dermal                         | Rat     | LD50 1,280 mg/kg  |
| 2,4,6-tris(dimethylaminomethyl)phenol | Ingestion                      | Rat     | LD50 1,000 mg/kg  |
| Epoxy Resin A                         | Dermal                         | Rat     | LD50 > 2,000 mg/kg                                      |
| Epoxy Resin A                         | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                                      |
| Zinc Borate                           | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                                      |
| Zinc Borate                           | Inhalation-Dust/Mist           | Rat     | LC50 > 4.95 mg/l  |
| Zinc Borate                           | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                                      |
| Epoxy Resin B                         | Dermal                         | Rat     | LD50 > 1,600 mg/kg                                      |
| Epoxy Resin B                         | Ingestion                      | Rat     | LD50 > 1,000 mg/kg                                      |
| Limestone                             | Dermal                         | Rat     | LD50 > 2,000 mg/kg                                      |
| Limestone                             | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 3 mg/l   |
| Limestone                             | Ingestion                      | Rat     | LD50 6,450 mg/kg  |

|                                  |                                |                   |  |
|----------------------------------|--------------------------------|-------------------|--|
| Calcium Salt                     | Ingestion                      | Rat               | LD50 >300, <2000 mg/kg                 |
| Calcium Salt                     | Dermal                         | similar compounds | LD50 > 2,000 mg/kg                     |
| BIS[(DIMETHYLAMINO)METHYL]PHENOL | Ingestion                      |                   | LD50 estimated to be 300 - 2,000 mg/kg |
| Treated Amorphous Silica         | Dermal                         | Rabbit            | LD50 > 5,000 mg/kg                     |
| Treated Amorphous Silica         | Inhalation-Dust/Mist (4 hours) | Rat               | LC50 > 0.691 mg/l                      |
| Treated Amorphous Silica         | Ingestion                      | Rat               | LD50 > 5,110 mg/kg                     |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                  | Species                | Value                     |
|---------------------------------------|------------------------|---------------------------|
| POLY(OXYPROPYLENE)DIAMINE             | Rabbit                 | Corrosive                 |
| Alumina Trihydrate                    | Rabbit                 | No significant irritation |
| Glass Bubbles                         | Professional judgement | No significant irritation |
| 2,4,6-tris(dimethylaminomethyl)phenol | Rabbit                 | Corrosive                 |
| Epoxy Resin A                         | Rabbit                 | Irritant                  |
| Zinc Borate                           | Rabbit                 | No significant irritation |
| Epoxy Resin B                         | Rabbit                 | Mild irritant             |
| Limestone                             | Rabbit                 | No significant irritation |
| Calcium Salt                          | similar compounds      | No significant irritation |
| BIS[(DIMETHYLAMINO)METHYL]PHENOL      | similar compounds      | Corrosive                 |
| Treated Amorphous Silica              | Rabbit                 | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                  | Species                | Value                     |
|---------------------------------------|------------------------|---------------------------|
| POLY(OXYPROPYLENE)DIAMINE             | Rabbit                 | Corrosive                 |
| Alumina Trihydrate                    | Rabbit                 | No significant irritation |
| Glass Bubbles                         | Professional judgement | No significant irritation |
| 2,4,6-tris(dimethylaminomethyl)phenol | Rabbit                 | Corrosive                 |
| Epoxy Resin A                         | Rabbit                 | No significant irritation |
| Zinc Borate                           | Rabbit                 | Severe irritant           |
| Epoxy Resin B                         | Rabbit                 | Moderate irritant         |
| Limestone                             | Rabbit                 | No significant irritation |
| Calcium Salt                          | Rabbit                 | Corrosive                 |
| BIS[(DIMETHYLAMINO)METHYL]PHENOL      | similar compounds      | Corrosive                 |
| Treated Amorphous Silica              | Rabbit                 | No significant irritation |

### Skin Sensitization

| Name                                  | Species         | Value          |
|---------------------------------------|-----------------|----------------|
| POLY(OXYPROPYLENE)DIAMINE             | Guinea pig      | Not classified |
| Alumina Trihydrate                    | Guinea pig      | Not classified |
| 2,4,6-tris(dimethylaminomethyl)phenol | Guinea pig      | Not classified |
| Epoxy Resin A                         | Multiple animal | Sensitizing    |

|                          | species           |                |
|--------------------------|-------------------|----------------|
| Zinc Borate              | Guinea pig        | Not classified |
| Epoxy Resin B            | Human and animal  | Sensitizing    |
| Calcium Salt             | similar compounds | Not classified |
| Treated Amorphous Silica | Human and animal  | Not classified |

### Respiratory Sensitization

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

### Germ Cell Mutagenicity

| Name                                  | Route    | Value  |
|---------------------------------------|----------|--|
| POLY(OXYPROPYLENE)DIAMINE             | In Vitro | Not mutagenic  |
| POLY(OXYPROPYLENE)DIAMINE             | In vivo  | Not mutagenic  |
| Glass Bubbles                         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| 2,4,6-tris(dimethylaminomethyl)phenol | In Vitro | Not mutagenic  |
| Epoxy Resin A                         | In vivo  | Not mutagenic  |
| Epoxy Resin A                         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc Borate                           | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc Borate                           | In vivo  | Mutagenic  |
| Epoxy Resin B                         | In vivo  | Not mutagenic  |
| Epoxy Resin B                         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Calcium Salt                          | In Vitro | Not mutagenic  |
| Treated Amorphous Silica              | In Vitro | Not mutagenic  |

### Carcinogenicity

| Name                     | Route         | Species                 | Value  |
|--------------------------|---------------|-------------------------|--|
| Alumina Trihydrate       | Not Specified | Multiple animal species | Not carcinogenic   |
| Glass Bubbles            | Inhalation    | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin B            | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Treated Amorphous Silica | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                      | Route  | Value                                  | Species | Test Result        | Exposure Duration            |
|---------------------------|--------|--|---------|--------------------|------------------------------|
| 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           | premating &                  |

|                                       |           |  |                   |                       |                              |
|---------------------------------------|-----------|--|-------------------|-----------------------|------------------------------|
|                                       |           |  |                   | mg/kg/day             | during gestation             |
| Alumina Trihydrate                    | Ingestion | Not classified for development         | Rat               | NOAEL 768 mg/kg/day   | during organogenesis         |
| 2,4,6-tris(dimethylaminomethyl)phenol | Ingestion | Not classified for male reproduction   | Rat               | NOAEL 150 mg/kg/day   | 2 generation                 |
| 2,4,6-tris(dimethylaminomethyl)phenol | Ingestion | Not classified for female reproduction | Rat               | NOAEL 50 mg/kg/day    | 2 generation                 |
| 2,4,6-tris(dimethylaminomethyl)phenol | Ingestion | Not classified for development         | Rabbit            | NOAEL 15 mg/kg/day    | during gestation             |
| Zinc Borate                           | Ingestion | Toxic to male reproduction             | Rat               | NOAEL 100 mg/kg/day   | 92 days                      |
| Zinc Borate                           | Ingestion | Toxic to development                   | Rat               | LOAEL 100 mg/kg/day   | during gestation             |
| Epoxy Resin B                         | Ingestion | Not classified for female reproduction | Rat               | NOAEL 750 mg/kg/day   | 2 generation                 |
| Epoxy Resin B                         | Ingestion | Not classified for male reproduction   | Rat               | NOAEL 750 mg/kg/day   | 2 generation                 |
| Epoxy Resin B                         | Dermal    | Not classified for development         | Rabbit            | NOAEL 300 mg/kg/day   | during organogenesis         |
| Epoxy Resin B                         | Ingestion | Not classified for development         | Rat               | NOAEL 750 mg/kg/day   | 2 generation                 |
| Limestone                             | Ingestion | Not classified for development         | Rat               | NOAEL 625 mg/kg/day   | premating & during gestation |
| Calcium Salt                          | Ingestion | Not classified for female reproduction | similar compounds | NOAEL 1,500 mg/kg/day | premating into lactation     |
| Calcium Salt                          | Ingestion | Not classified for male reproduction   | similar compounds | NOAEL 1,500 mg/kg/day | 28 days                      |
| Calcium Salt                          | Ingestion | Not classified for development         | similar compounds | NOAEL 1,500 mg/kg/day | premating into lactation     |
| Treated Amorphous Silica              | Ingestion | Not classified for female reproduction | Rat               | NOAEL 509 mg/kg/day   | 1 generation                 |
| Treated Amorphous Silica              | Ingestion | Not classified for male reproduction   | Rat               | NOAEL 497 mg/kg/day   | 1 generation                 |
| Treated Amorphous Silica              | Ingestion | Not classified for development         | Rat               | NOAEL 1,350 mg/kg/day | during organogenesis         |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name                                  | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|---------------------------------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| POLY(OXYPROPYLENE)DIAMINE             | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| 2,4,6-tris(dimethylaminomethyl)phenol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Epoxy Resin A                         | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available |                   |
| Zinc Borate                           | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Limestone                             | Inhalation | respiratory system     | Not classified   | Rat                    | NOAEL 0.812 mg/l    | 90 minutes        |
| Calcium Salt                          | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

|              |           |                   |                         |       |                     |                        |
|--------------|-----------|-------------------|-------------------------|-------|---------------------|------------------------|
| Calcium Salt | Ingestion | methemoglobinemia | Causes damage to organs | Human | NOAEL Not available | environmental exposure |
|--------------|-----------|-------------------|-------------------------|-------|---------------------|------------------------|

**Specific Target Organ Toxicity - repeated exposure**

| Name                                   | Route      | Target Organ(s)  | Value          | Species | Test Result           | Exposure Duration     |
|--|------------|--|----------------|---------|-----------------------|-----------------------|
| Glass Bubbles                          | Inhalation | respiratory system   | Not classified | Human   | NOAEL not available   | occupational exposure |
| 2,4,6-tris(dimethylaminomethyl) phenol | Dermal     | skin   | Not classified | Rat     | NOAEL 25 mg/kg/day    | 4 weeks               |
| 2,4,6-tris(dimethylaminomethyl) phenol | Dermal     | liver   nervous system   auditory system   hematopoietic system   eyes   | Not classified | Rat     | NOAEL 125 mg/kg/day   | 4 weeks               |
| 2,4,6-tris(dimethylaminomethyl) phenol | Ingestion  | heart   endocrine system   hematopoietic system   liver   muscles   nervous system   kidney and/or bladder   respiratory system   vascular system   auditory system   skin   gastrointestinal tract   bone, teeth, nails, and/or hair   immune system   eyes | Not classified | Rat     | NOAEL 150 mg/kg/day   | 90 days               |
| Epoxy Resin A                          | Ingestion  | heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system                                    | Not classified | Rat     | NOAEL 250 mg/kg/day   | 13 weeks              |
| Zinc Borate                            | Inhalation | immune system   respiratory system   heart   endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder  | Not classified | Rat     | NOAEL 0.15 mg/l       | 2 weeks               |
| Zinc Borate                            | Ingestion  | endocrine system   liver   kidney and/or bladder   heart   skin   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   eyes   respiratory system   vascular system  | Not classified | Rat     | NOAEL 375 mg/kg/day   | 92 days               |
| Epoxy Resin B                          | Dermal     | liver  | Not classified | Rat     | NOAEL 1,000 mg/kg/day | 2 years               |

|                          |            |   |                |                   |                             |                       |
|--------------------------|------------|---|----------------|-------------------|-----------------------------|-----------------------|
| Epoxy Resin B            | Dermal     | nervous system  | Not classified | Rat               | NOAEL<br>1,000<br>mg/kg/day | 13 weeks              |
| Epoxy Resin B            | Ingestion  | auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder  | Not classified | Rat               | NOAEL<br>1,000<br>mg/kg/day | 28 days               |
| Limestone                | Inhalation | respiratory system  | Not classified | Human             | NOAEL Not available         | occupational exposure |
| Calcium Salt             | Ingestion  | heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | similar compounds | NOAEL<br>1,500<br>mg/kg/day | 28 days               |
| Treated Amorphous Silica | Inhalation | respiratory system   silicosis  | Not classified | Human             | NOAEL Not available         | occupational exposure |

**Aspiration Hazard**

| Name                      | Value  |
|---------------------------|--|
| POLY(OXYPROPYLENE)DIAMINE | Some positive data exist, but the data are not sufficient for classification |

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

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

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

**Chemical fate information**

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

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

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

Dispose of waste product in a permitted industrial waste facility. 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):** D002 (Corrosive)

**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

Corrosive to metal

##### Health Hazards

Germ cell mutagenicity

Hazard Not Otherwise Classified (HNOC)

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

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

##### Ingredient

Zinc Borate (ZINC COMPOUNDS)

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

138265-88-0

##### % by Wt

Trade Secret < 5

Calcium Salt (NITRATE COMPOUNDS (WATER DISSOCIABLE; REPORTABLE ONLY WHEN IN AQUEOUS SOLUTION))

13477-34-4

Trade Secret < 3

### 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:** 29-2129-4  
**Issue Date:** 11/05/24

**Version Number:** 6.00  
**Supersedes Date:** 01/13/23

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## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 29-2175-7 | <b>Version Number:</b>  | 7.00     |
| <b>Issue Date:</b>     | 11/05/24  | <b>Supersedes Date:</b> | 10/22/24 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Structural Void Filling Compound EC-3550 and EC-3555 B/A FST, Part B

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

##### Recommended use

Base for two component void filling compound

#### 1.3. Supplier's details

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1A.

Reproductive Toxicity: Category 2.

Germ Cell Mutagenicity: Category 2.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Causes serious eye irritation.  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Suspected of damaging fertility or the unborn child.  
 Suspected of causing genetic defects.

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

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wear protective gloves and eye/face protection.  
 Wash thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.

**Response:**

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

**Storage:**

Store locked up.

**Disposal:**

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

1% of the mixture consists of ingredients of unknown acute oral toxicity.

1% of the mixture consists of ingredients of unknown acute dermal toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient                          | C.A.S. No.  | % by Wt                |
|-------------------------------------|-------------|------------------------|
| EPF Epoxy Novolak                   | 9003-36-5   | 20 - 30 Trade Secret * |
| Glass Bubbles                       | 65997-17-3  | 10 - 30                |
| Alumina Trihydrate                  | 21645-51-2  | 10 - 20                |
| Epoxy Resin C                       | 14228-73-0  | 10 - 20 Trade Secret * |
| Epoxy Resin A                       | 28064-14-4  | < 10 Trade Secret *    |
| Sulfuric acid, compd. with graphite | 12777-87-6  | 5 - 10                 |
| Epoxy Resin B                       | 25068-38-6  | < 5 Trade Secret *     |
| Limestone                           | 1317-65-3   | < 5                    |
| Treated Amorphous Silica            | 67762-90-7  | < 5                    |
| Zinc Borate                         | 138265-88-0 | < 5 Trade Secret *     |

|                           |               |                      |
|---------------------------|---------------|----------------------|
| Red Phosphorus            | 7723-14-0     | < 3                  |
| Phosphoric Acid Polyester | Trade Secret* | < 2                  |
| Silane                    | 2530-83-8     | < 1.5 Trade Secret * |
| Stannous Sulfate          | 7488-55-3     | < 1 Trade Secret *   |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

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

#### Skin Contact:

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

#### Eye Contact:

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

#### If Swallowed:

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

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

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. Refer to other sections of this SDS for

information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

## 6.2. Environmental precautions

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

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

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

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

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

## 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids.

# 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            |
|----------------------------------|------------|-------------------------|--|--------------------------------|
| Limestone                        | 1317-65-3  | OSHA                    | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup>  |                                |
| Aluminum, insoluble compounds    | 21645-51-2 | ACGIH                   | TWA(respirable fraction):1 mg/m <sup>3</sup>   | A4: Not class. as human carcin |
| DUST, INERT OR NUISANCE          | 21645-51-2 | OSHA                    | TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m <sup>3</sup> );TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m <sup>3</sup> ) |                                |
| Glass Bubbles                    | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m <sup>3</sup> ;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m <sup>3</sup>                        |                                |
| SILICA, AMORPHOUS                | 67762-90-7 | OSHA                    | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup>   |                                |
| TIN, INORGANIC COMPOUNDS, EXCEPT | 7488-55-3  | OSHA                    | TWA(as Sn):2 mg/m <sup>3</sup>   |                                |

|                |           |      |               |  |
|----------------|-----------|------|---------------|--|
| OXIDES         |           |      |               |  |
| Red Phosphorus | 7723-14-0 | OSHA | TWA:0.1 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:

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

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used: Nitrile Rubber

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

#### Respiratory protection

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

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

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>Appearance</b>                              |   |
| Physical state                                 | Liquid                                    |
| Color  | Brown                                     |
| <b>Specific Physical Form:</b>                 | Viscous                                   |
| <b>Odor</b>                                    | Low Epoxy                                 |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                  |
| <b>pH</b>                                      | <i>Not Applicable</i>                     |
| <b>Melting point</b>                           | <i>Not Applicable</i>                     |
| <b>Boiling Point</b>                           | <i>Not Applicable</i>                     |
| <b>Flash Point</b>                             | ≥200 °F [ <i>Test Method:</i> Closed Cup] |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                  |
| <b>Flammability (solid, gas)</b>               | Not Applicable                            |
| <b>Flammable Limits(LEL)</b>                   | <i>Not Applicable</i>                     |
| <b>Flammable Limits(UEL)</b>                   | <i>Not Applicable</i>                     |
| <b>Vapor Pressure</b>                          | Negligible                                |
| <b>Vapor Density</b>                           | <i>No Data Available</i>                  |
| <b>Density</b>                                 | 0.7 g/ml                                  |
| <b>Specific Gravity</b>                        | 0.5 - 0.7 [ <i>Ref Std:</i> WATER=1]      |
| <b>Solubility in Water</b>                     | Negligible                                |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                  |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                  |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>                  |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                  |
| <b>Viscosity</b>                               | <i>No Data Available</i>                  |
| <b>Molecular weight</b>                        | <i>No Data Available</i>                  |
| <b>Percent volatile</b>                        | Negligible                                |

## 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

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

### 10.6. Hazardous decomposition products

#### Substance

#### Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

##### Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

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

##### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

##### Ingestion:

May be harmful if swallowed.

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

May cause additional health effects (see below).

#### Additional Health Effects:

##### Reproductive/Developmental Toxicity:

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

##### Genotoxicity:

Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

#### Toxicological Data

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

##### Acute Toxicity

| Name              | Route     | Species | Value   |
|-------------------|-----------|---------|---|
| Overall product   | Dermal    |         | No data available; calculated ATE >5,000 mg/kg          |
| Overall product   | Ingestion |         | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| EPF Epoxy Novolak | Dermal    | Rat     | LD50 > 2,000 mg/kg                                      |
| EPF Epoxy Novolak | Ingestion | Rat     | LD50 > 5,000 mg/kg                                      |
| Glass Bubbles     | Dermal    |         | LD50 estimated to be > 5,000 mg/kg                      |



|                                     |                                |                        |  |
|-------------------------------------|--------------------------------|------------------------|--|
| Glass Bubbles                       | Ingestion                      |                        | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Epoxy Resin C                       | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                       |
| Epoxy Resin C                       | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.19 mg/l                         |
| Epoxy Resin C                       | Ingestion                      | Rat                    | LD50 1,098 mg/kg                         |
| Alumina Trihydrate                  | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg       |
| Alumina Trihydrate                  | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 2.3 mg/l                          |
| Alumina Trihydrate                  | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                       |
| Epoxy Resin A                       | Dermal                         | Rabbit                 | LD50 > 6,000 mg/kg                       |
| Epoxy Resin A                       | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 1.7 mg/l                          |
| Epoxy Resin A                       | Ingestion                      | Rat                    | LD50 > 4,000 mg/kg                       |
| Sulfuric acid, compd. with graphite | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| Sulfuric acid, compd. with graphite | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                       |
| Epoxy Resin B                       | Dermal                         | Rat                    | LD50 > 1,600 mg/kg                       |
| Epoxy Resin B                       | Ingestion                      | Rat                    | LD50 > 1,000 mg/kg                       |
| Zinc Borate                         | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                       |
| Zinc Borate                         | Inhalation-Dust/Mist           | Rat                    | LC50 > 4.95 mg/l                         |
| Zinc Borate                         | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                       |
| Red Phosphorus                      | Dermal                         | Professional judgment  | LD50 estimated to be > 5,000 mg/kg       |
| Red Phosphorus                      | Ingestion                      | Rat                    | LD50 > 15,000 mg/kg                      |
| Limestone                           | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                       |
| Limestone                           | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 3 mg/l                              |
| Limestone                           | Ingestion                      | Rat                    | LD50 6,450 mg/kg                         |
| Silane                              | Dermal                         | Rabbit                 | LD50 4,000 mg/kg                         |
| Treated Amorphous Silica            | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                       |
| Silane                              | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.3 mg/l                          |
| Silane                              | Ingestion                      | Rat                    | LD50 7,010 mg/kg                         |
| Treated Amorphous Silica            | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                        |
| Treated Amorphous Silica            | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                       |
| Stannous Sulfate                    | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 2 mg/l                              |
| Stannous Sulfate                    | Ingestion                      | Rat                    | LD50 2,207 mg/kg                         |
| Stannous Sulfate                    | Dermal                         | similar health hazards | LD50 estimated to be 2,000 - 5,000 mg/kg |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name               | Species               | Value                     |
|--------------------|-----------------------|---------------------------|
| EPF Epoxy Novolak  | Rabbit                | Irritant                  |
| Glass Bubbles      | Professional judgment | No significant irritation |
| Epoxy Resin C      | In vitro data         | Irritant                  |
| Alumina Trihydrate | Rabbit                | No significant irritation |
| Epoxy Resin A      | Rabbit                | Minimal irritation        |

|                                     |                        |                           |
|-------------------------------------|------------------------|---------------------------|
| Sulfuric acid, compd. with graphite | Rat                    | Minimal irritation        |
| Epoxy Resin B                       | Rabbit                 | Mild irritant             |
| Zinc Borate                         | Rabbit                 | No significant irritation |
| Red Phosphorus                      | Rabbit                 | No significant irritation |
| Limestone                           | Rabbit                 | No significant irritation |
| Silane                              | Rabbit                 | Mild irritant             |
| Treated Amorphous Silica            | Rabbit                 | No significant irritation |
| Stannous Sulfate                    | Professional judgement | Irritant                  |

**Serious Eye Damage/Irritation**

| Name                                | Species                | Value                     |
|-------------------------------------|------------------------|---------------------------|
| EPF Epoxy Novolak                   | Rabbit                 | No significant irritation |
| Glass Bubbles                       | Professional judgement | No significant irritation |
| Epoxy Resin C                       | In vitro data          | No significant irritation |
| Alumina Trihydrate                  | Rabbit                 | No significant irritation |
| Epoxy Resin A                       | Rabbit                 | Mild irritant             |
| Sulfuric acid, compd. with graphite | Rabbit                 | Mild irritant             |
| Epoxy Resin B                       | Rabbit                 | Moderate irritant         |
| Zinc Borate                         | Rabbit                 | Severe irritant           |
| Red Phosphorus                      | Rabbit                 | No significant irritation |
| Limestone                           | Rabbit                 | No significant irritation |
| Silane                              | Rabbit                 | Corrosive                 |
| Treated Amorphous Silica            | Rabbit                 | No significant irritation |
| Stannous Sulfate                    | Professional judgement | Corrosive                 |

**Skin Sensitization**

| Name                     | Species                 | Value          |
|--------------------------|-------------------------|----------------|
| EPF Epoxy Novolak        | Multiple animal species | Sensitizing    |
| Epoxy Resin C            | Mouse                   | Sensitizing    |
| Alumina Trihydrate       | Guinea pig              | Not classified |
| Epoxy Resin A            | Human and animal        | Sensitizing    |
| Epoxy Resin B            | Human and animal        | Sensitizing    |
| Zinc Borate              | Guinea pig              | Not classified |
| Red Phosphorus           | Guinea pig              | Not classified |
| Silane                   | Guinea pig              | Not classified |
| Treated Amorphous Silica | Human and animal        | Not classified |
| Stannous Sulfate         | Human                   | Sensitizing    |

**Respiratory Sensitization**

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

|               |       |                |
|---------------|-------|----------------|
| Epoxy Resin B | Human | Not classified |
|---------------|-------|----------------|

**Germ Cell Mutagenicity**

| Name                                | Route    | Value  |
|-------------------------------------|----------|--|
| EPF Epoxy Novolak                   | In vivo  | Not mutagenic  |
| EPF Epoxy Novolak                   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Glass Bubbles                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin C                       | In vivo  | Not mutagenic  |
| Epoxy Resin C                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Epoxy Resin A                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Sulfuric acid, compd. with graphite | In Vitro | Not mutagenic  |
| Epoxy Resin B                       | In vivo  | Not mutagenic  |
| Epoxy Resin B                       | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc Borate                         | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Zinc Borate                         | In vivo  | Mutagenic  |
| Red Phosphorus                      | In Vitro | Not mutagenic  |
| Silane                              | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Silane                              | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Treated Amorphous Silica            | In Vitro | Not mutagenic  |
| Stannous Sulfate                    | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                     | Route         | Species                 | Value  |
|--------------------------|---------------|-------------------------|--|
| Glass Bubbles            | Inhalation    | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Alumina Trihydrate       | Not Specified | Multiple animal species | Not carcinogenic   |
| Epoxy Resin B            | Dermal        | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Silane                   | Dermal        | Mouse                   | Not carcinogenic   |
| Treated Amorphous Silica | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |

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

| Name               | Route     | Value                                  | Species | Test Result         | Exposure Duration        |
|--------------------|-----------|--|---------|---------------------|--------------------------|
| Epoxy Resin C      | Ingestion | Not classified for female reproduction | Rat     | NOAEL 300 mg/kg/day | premating into lactation |
| Epoxy Resin C      | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 300 mg/kg/day | 33 days                  |
| Epoxy Resin C      | Ingestion | Not classified for development         | Rat     | NOAEL 300 mg/kg/day | premating into lactation |
| Alumina Trihydrate | Ingestion | Not classified for development         | Rat     | NOAEL 768 mg/kg/day | during organogenesis     |
| Epoxy Resin B      | Ingestion | Not classified for female reproduction | Rat     | NOAEL 750 mg/kg/day | 2 generation             |
| Epoxy Resin B      | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 750 mg/kg/day | 2 generation             |
| Epoxy Resin B      | Dermal    | Not classified for development         | Rabbit  | NOAEL 300           | during                   |

|                          |           |  |     |                       |                                |
|--------------------------|-----------|--|-----|-----------------------|--------------------------------|
|                          |           |  |     | mg/kg/day             | organogenesis                  |
| Epoxy Resin B            | Ingestion | Not classified for development         | Rat | NOAEL 750 mg/kg/day   | 2 generation                   |
| Zinc Borate              | Ingestion | Toxic to male reproduction             | Rat | NOAEL 100 mg/kg/day   | 92 days                        |
| Zinc Borate              | Ingestion | Toxic to development                   | Rat | LOAEL 100 mg/kg/day   | during gestation               |
| Limestone                | Ingestion | Not classified for development         | Rat | NOAEL 625 mg/kg/day   | prematuring & during gestation |
| Silane                   | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation                   |
| Silane                   | Ingestion | Not classified for male reproduction   | Rat | NOAEL 1,000 mg/kg/day | 1 generation                   |
| Silane                   | Ingestion | Not classified for development         | Rat | NOAEL 3,000 mg/kg/day | during organogenesis           |
| Treated Amorphous Silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day   | 1 generation                   |
| Treated Amorphous Silica | Ingestion | Not classified for male reproduction   | Rat | NOAEL 497 mg/kg/day   | 1 generation                   |
| Treated Amorphous Silica | Ingestion | Not classified for development         | Rat | NOAEL 1,350 mg/kg/day | during organogenesis           |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name              | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|-------------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| EPF Epoxy Novolak | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL not available |                   |
| Epoxy Resin C     | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Zinc Borate       | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |
| Limestone         | Inhalation | respiratory system     | Not classified   | Rat                    | NOAEL 0.812 mg/l    | 90 minutes        |
| Stannous Sulfate  | Inhalation | respiratory irritation | May cause respiratory irritation   | Professional judgement | NOAEL Not available |                   |

#### Specific Target Organ Toxicity - repeated exposure

| Name              | Route      | Target Organ(s)   | Value          | Species | Test Result         | Exposure Duration     |
|-------------------|------------|---|----------------|---------|---------------------|-----------------------|
| EPF Epoxy Novolak | Ingestion  | heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   nervous system   eyes   kidney and/or bladder   respiratory system   vascular system | Not classified | Rat     | NOAEL 250 mg/kg/day | 13 weeks              |
| Glass Bubbles     | Inhalation | respiratory system  | Not classified | Human   | NOAEL not available | occupational exposure |
| Epoxy Resin C     | Ingestion  | endocrine system  | Not classified | Rat     | NOAEL 300           | 33 days               |

|  |            |   |                |       |                             |                          |
|--|------------|---|----------------|-------|-----------------------------|--------------------------|
|  |            | gastrointestinal tract<br>  liver   heart  <br>hematopoietic<br>system   immune<br>system   nervous<br>system   kidney<br>and/or bladder  |                |       | mg/kg/day                   |                          |
| Sulfuric acid, compd. with<br>graphite | Ingestion  | hematopoietic<br>system   nervous<br>system   eyes  | Not classified | Rat   | NOAEL<br>1,000<br>mg/kg/day | 90 days                  |
| Epoxy Resin B                          | Dermal     | liver   | Not classified | Rat   | NOAEL<br>1,000<br>mg/kg/day | 2 years                  |
| Epoxy Resin B                          | Dermal     | nervous system  | Not classified | Rat   | NOAEL<br>1,000<br>mg/kg/day | 13 weeks                 |
| Epoxy Resin B                          | Ingestion  | auditory system  <br>heart   endocrine<br>system  <br>hematopoietic<br>system   liver   eyes  <br>kidney and/or<br>bladder  | Not classified | Rat   | NOAEL<br>1,000<br>mg/kg/day | 28 days                  |
| Zinc Borate                            | Inhalation | immune system  <br>respiratory system  <br>heart   endocrine<br>system  <br>hematopoietic<br>system   liver  <br>nervous system  <br>kidney and/or<br>bladder   | Not classified | Rat   | NOAEL 0.15<br>mg/l          | 2 weeks                  |
| Zinc Borate                            | Ingestion  | endocrine system  <br>liver   kidney and/or<br>bladder   heart   skin<br>  bone, teeth, nails,<br>and/or hair  <br>hematopoietic<br>system   immune<br>system   nervous<br>system   eyes  <br>respiratory system  <br>vascular system | Not classified | Rat   | NOAEL 375<br>mg/kg/day      | 92 days                  |
| Limestone                              | Inhalation | respiratory system  | Not classified | Human | NOAEL Not<br>available      | occupational<br>exposure |
| Silane                                 | Ingestion  | heart   endocrine<br>system   bone, teeth,<br>nails, and/or hair  <br>hematopoietic<br>system   liver  <br>immune system  <br>nervous system  <br>kidney and/or<br>bladder   respiratory<br>system                                    | Not classified | Rat   | NOAEL<br>1,000<br>mg/kg/day | 28 days                  |
| Treated Amorphous Silica               | Inhalation | respiratory system  <br>silicosis   | Not classified | Human | NOAEL Not<br>available      | occupational<br>exposure |
| Stannous Sulfate                       | Ingestion  | hematopoietic<br>system   liver   heart<br>  kidney and/or<br>bladder   | Not classified | Rat   | NOAEL 40<br>mg/kg/day       | 4 weeks                  |

**Aspiration Hazard**

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

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

## SECTION 12: Ecological information

### Ecotoxicological information

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

### Chemical fate information

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

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## SECTION 14: Transport Information

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

Germ cell mutagenicity

Reproductive toxicity

Respiratory or Skin Sensitization

Serious eye damage or eye irritation

Skin Corrosion or Irritation

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

| <u><b>Ingredient</b></u>     | <u><b>C.A.S. No</b></u> | <u><b>% by Wt</b></u> |
|------------------------------|-------------------------|-----------------------|
| Zinc Borate (ZINC COMPOUNDS) | 138265-88-0             | Trade Secret < 5      |

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

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

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

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

## SECTION 16: Other information

### NFPA Hazard Classification

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

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

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**Supersedes Date:** 10/22/24

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