



## Safety Data Sheet

Copyright, 2024, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 29-7184-4 | <b>Version Number:</b>  | 1.03     |
| <b>Issue Date:</b>     | 03/15/24  | <b>Supersedes Date:</b> | 05/08/17 |

### Product identifier

3M™ Scotch-Weld™ Epoxy Adhesive EC-1838 B/A Green

### ID Number(s):

87-2500-0440-2, 87-2500-0441-0

7000133730, 7100014433

### Recommended use

Structural adhesive

### 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:**

29-7186-9, 29-7188-5

**DISCLAIMER:** The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M USA SDSs are available at [www.3M.com](http://www.3M.com)



## Safety Data Sheet

Copyright, 2024, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 29-7188-5 | <b>Version Number:</b>  | 2.02     |
| <b>Issue Date:</b>     | 03/15/24  | <b>Supersedes Date:</b> | 07/26/18 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Adhesive EC-1838 B/A Green, Part B

#### Product Identification Numbers

LC-B100-0987-4, LC-B100-0987-5

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

##### Recommended use

Base component for two-part adhesive

#### 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 2B.

Skin Sensitizer: Category 1.

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

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Causes eye irritation.  
May cause an allergic skin reaction.

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

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

Do not breathe dust/fume/gas/mist/vapors/spray.  
Wear protective gloves.  
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 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.  
Wash contaminated clothing before reuse.  
Get medical advice/attention if you feel unwell.

**Disposal:**

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

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

| Ingredient        | C.A.S. No. | % by Wt                |
|-------------------|------------|------------------------|
| EPOXY RESIN       | 25068-38-6 | 70 - 80 Trade Secret * |
| KAOLIN            | 1332-58-7  | 20 - 30 Trade Secret * |
| CALCIUM CARBONATE | 1317-65-3  | 1 - 5                  |
| CLAY              | 68953-58-2 | 1 - 5                  |
| TITANIUM DIOXIDE  | 13463-67-7 | < 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:**

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). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

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

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**

No special protective actions for fire-fighters are anticipated.

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

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

**6.2. Environmental precautions**

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

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

Contain spill. 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 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.)

### 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            |
|-------------------|------------|--------|--|--------------------------------|
| CALCIUM CARBONATE | 1317-65-3  | OSHA   | TWA(as total dust):15 mg/m <sup>3</sup> ;TWA(respirable fraction):5 mg/m <sup>3</sup>                                |                                |
| KAOLIN            | 1332-58-7  | ACGIH  | TWA(respirable fraction):2 mg/m <sup>3</sup>   | A4: Not class. as human carcin |
| TITANIUM DIOXIDE  | 13463-67-7 | ACGIH  | TWA(Respirable nanoscale particles):0.2 mg/m <sup>3</sup> ;TWA(Respirable finescale particles):2.5 mg/m <sup>3</sup> | A3: Confirmed animal carcin.   |
| TITANIUM DIOXIDE  | 13463-67-7 | OSHA   | TWA(as total dust):15 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

No engineering controls required.

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

##### Eye/face protection

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

Indirect Vented Goggles

##### Skin/hand protection

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

Gloves made from the following material(s) are recommended: Butyl Rubber  
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 – Butyl rubber  
Apron - polymer laminate

### Respiratory protection

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

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

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

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state  
Color

Liquid  
White

Specific Physical Form:

Viscous Liquid

Odor

Mild Epoxy

Odor threshold

*No Data Available*

pH

*Not Applicable*

Melting point

*No Data Available*

Boiling Point

>=300 °F

Flash Point

>=200 °F [*Test Method*:Closed Cup]

Evaporation rate

*Not Applicable*

Flammability (solid, gas)

Not Applicable

Flammable Limits(LEL)

*No Data Available*

Flammable Limits(UEL)

*No Data Available*

Vapor Pressure

*No Data Available*

Vapor Density

*No Data Available*

Density

1.3 g/cm<sup>3</sup>

Specific Gravity

1.3 [*Ref Std*:WATER=1]

Solubility in Water

Negligible

Solubility- non-water

Nil

Partition coefficient: n-octanol/ water

*No Data Available*

Autoignition temperature

*No Data Available*

Decomposition temperature

*No Data Available*

Viscosity

400,000 centipoise [*@ 73*] [*Test Method*:Brookfield]

Hazardous Air Pollutants

0 % weight [*Test Method*:Calculated]

Molecular weight

*Not Applicable*

Volatile Organic Compounds

2 g/l [*Test Method*:tested per EPA method 24] [*Details*:EU VOC content]

Percent volatile

0 - 0.2 % weight [*Test Method*:ACS METHOD]

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

2 g/l [*Test Method*:tested per EPA method 24]

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

3 g/l [*Test Method*:tested per EPA method 24] [*Details*:when used as intended with Part A]

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

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

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

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****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.

May cause additional health effects (see below).

**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.

**Additional Health Effects:**



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

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

**Carcinogenicity:**

| Ingredient       | CAS No.    | Class Description             | Regulation                                  |
|------------------|------------|-------------------------------|---|
| TITANIUM DIOXIDE | 13463-67-7 | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**Toxicological Data**

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

**Acute Toxicity**

| Name              | Route                          | Species | Value  |
|-------------------|--------------------------------|---------|--|
| Overall product   | 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                             |
| KAOLIN            | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| KAOLIN            | Ingestion                      | Human   | LD50 > 15,000 mg/kg                            |
| CLAY              | Dermal                         |         | LD50 estimated to be > 5,000 mg/kg             |
| CLAY              | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 > 12.6 mg/l                               |
| CLAY              | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                             |
| CALCIUM CARBONATE | Dermal                         | Rat     | LD50 > 2,000 mg/kg                             |
| CALCIUM CARBONATE | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 3 mg/l                                    |
| CALCIUM CARBONATE | Ingestion                      | Rat     | LD50 6,450 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                            |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name              | Species                | Value                     |
|-------------------|------------------------|---------------------------|
| EPOXY RESIN       | Rabbit                 | Mild irritant             |
| KAOLIN            | Professional judgement | No significant irritation |
| CLAY              | Rat                    | No significant irritation |
| CALCIUM CARBONATE | Rabbit                 | No significant irritation |
| TITANIUM DIOXIDE  | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name              | Species                | Value                     |
|-------------------|------------------------|---------------------------|
| EPOXY RESIN       | Rabbit                 | Moderate irritant         |
| KAOLIN            | Professional judgement | No significant irritation |
| CLAY              | Rabbit                 | No significant irritation |
| CALCIUM CARBONATE | Rabbit                 | No significant irritation |
| TITANIUM DIOXIDE  | Rabbit                 | No significant irritation |

**Skin Sensitization**

| Name             | Species          | Value          |
|------------------|------------------|----------------|
| EPOXY RESIN      | Human and animal | Sensitizing    |
| TITANIUM DIOXIDE | Human and animal | Not classified |

**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 |
| TITANIUM DIOXIDE | In Vitro | Not mutagenic  |
| TITANIUM DIOXIDE | In vivo  | Not mutagenic  |

**Carcinogenicity**

| Name             | Route      | Species                 | Value  |
|------------------|------------|-------------------------|--|
| EPOXY RESIN      | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| KAOLIN           | Inhalation | Multiple animal species | Not carcinogenic   |
| TITANIUM DIOXIDE | Ingestion  | Multiple animal species | Not carcinogenic   |
| TITANIUM DIOXIDE | Inhalation | Rat                     | Carcinogenic   |

**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                   |
| CALCIUM CARBONATE | Ingestion | Not classified for development         | Rat     | NOAEL 625 mg/kg/day | prematuring & during gestation |

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

| Name              | Route      | Target Organ(s)    | Value          | Species | Test Result      | Exposure Duration |
|-------------------|------------|--------------------|----------------|---------|------------------|-------------------|
| CALCIUM CARBONATE | 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<br>1,000<br>mg/kg/day | 2 years                  |
| EPOXY RESIN       | Dermal     | nervous system   | Not classified   | Rat     | NOAEL<br>1,000<br>mg/kg/day | 13 weeks                 |
| EPOXY RESIN       | 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                  |
| KAOLIN            | Inhalation | pneumoconiosis   | Causes damage to organs through<br>prolonged or repeated exposure                  | Human   | NOAEL NA                    | occupational<br>exposure |
| KAOLIN            | Inhalation | pulmonary fibrosis   | Not classified   | Rat     | NOAEL Not<br>available      |                          |
| CALCIUM CARBONATE | Inhalation | respiratory system   | Not classified   | Human   | NOAEL Not<br>available      | occupational<br>exposure |
| 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 |

**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. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. 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

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: 2 Flammability: 0 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: 29-7188-5

Version Number: 2.02

Issue Date: 03/15/24

Supersedes Date: 07/26/18

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable

for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

**3M USA SDSs are available at [www.3M.com](http://www.3M.com)**



## Safety Data Sheet

Copyright, 2024, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 29-7186-9 | <b>Version Number:</b>  | 3.01     |
| <b>Issue Date:</b>     | 03/15/24  | <b>Supersedes Date:</b> | 12/15/17 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Epoxy Adhesive EC-1838 B/A Green, Part A

#### Product Identification Numbers

LC-B100-0987-2, LC-B100-0987-3

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

##### Recommended use

Accelerator for two-component adhesive

#### 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 1.

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1B.

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

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Corrosion | Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

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

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

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

Wear protective gloves and eye/face protection.

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

Wash thoroughly after handling.

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

**Response:**

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

IF ON SKIN: Wash with plenty of soap and water.

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

Take off contaminated clothing and wash it before reuse.

Get medical advice/attention if you feel unwell.

**Disposal:**

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

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

| Ingredient       | C.A.S. No.  | % by Wt                |
|------------------|-------------|------------------------|
| Polyamide Resin  | 68410-23-1  | 75 - 85 Trade Secret * |
| Kaolin           | 1332-58-7   | 10 - 20 Trade Secret * |
| Amorphous Silica | 112945-52-5 | 3 - 7                  |
| Chromium Oxide   | 1308-38-9   | < 1                    |

\*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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

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

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**

Amine Compounds  
Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion

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

No special protective actions for fire-fighters are anticipated.

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

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

**6.2. Environmental precautions**

Avoid release to the environment. 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**

Avoid breathing of dust created by cutting, sanding, grinding or machining. 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.)

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

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         | 112945-52-5 | OSHA   | TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m <sup>3</sup>                  |                                |
| CHROMIUM (III) COMPOUNDS  | 1308-38-9   | ACGIH  | TWA(as Cr(III), inhalable fraction):0.003 mg/m <sup>3</sup> ;TWA(as Cr):0.5 mg/m <sup>3</sup> | A4: Not class. as human carcin |
| CHROMIUM (III) COMPOUNDS  | 1308-38-9   | OSHA   | TWA(as Cr):0.5 mg/m <sup>3</sup>  |                                |
| Chromium, insoluble salts | 1308-38-9   | OSHA   | TWA(as Cr):1 mg/m <sup>3</sup>  |                                |
| Kaolin                    | 1332-58-7   | ACGIH  | TWA(respirable fraction):2 mg/m <sup>3</sup>  | A4: Not class. as human carcin |
| KAOLIN, TOTAL DUST        | 1332-58-7   | 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:

Full Face Shield

Indirect Vented Goggles

**Skin/hand protection**

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

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

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

**Respiratory protection**

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

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

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

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

Liquid

**Color**

Green

**Specific Physical Form:**

Paste

**Odor**

Slight Amine

**Odor threshold***No Data Available***pH***No Data Available***Melting point***Not Applicable***Boiling Point**

≥250 °F

**Flash Point**≥200 °F [*Test Method*:Closed Cup]**Evaporation rate***Not Applicable***Flammability (solid, gas)**

Not Applicable

**Flammable Limits(LEL)***No Data Available***Flammable Limits(UEL)***No Data Available***Vapor Pressure***Not Applicable***Vapor Density***Not Applicable***Density**1.04 g/cm<sup>3</sup>**Specific Gravity**1.04 [*Ref Std*:WATER=1]**Solubility in Water**

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***Viscosity**3,000 - 10,000 poise [*@* 73.4 °F ]**Hazardous Air Pollutants**0.9 % weight [*Test Method*:Calculated]**Molecular weight***Not Applicable***Volatile Organic Compounds**48 g/l [*Test Method*:tested per EPA method 24] [*Details*:EU VOC content]**Percent volatile**

0 - 5 % weight

VOC Less H2O & Exempt Solvents  
VOC Less H2O & Exempt Solvents

48 g/l [*Test Method*:tested per EPA method 24]  
3.4 g/l [*Test Method*:tested per EPA method 24] [*Details*:when used as intended with Part B]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

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 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.

May cause additional health effects (see below).

#### Skin Contact:

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

#### Eye Contact:

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:**

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

**Additional Health Effects:****Prolonged or repeated exposure may cause target organ effects:**

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

**Toxicological Data**

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

**Acute Toxicity**

| Name             | Route                          | Species                | Value  |
|------------------|--------------------------------|------------------------|--|
| Overall product  | Ingestion                      |                        | No data available; calculated ATE >5,000 mg/kg |
| Polyamide Resin  | Dermal                         | Rat                    | LD50 > 2,000 mg/kg                             |
| Polyamide Resin  | Ingestion                      | Rat                    | LD50 > 2,000 mg/kg                             |
| Kaolin           | Dermal                         |                        | LD50 estimated to be > 5,000 mg/kg             |
| Kaolin           | Ingestion                      | Human                  | LD50 > 15,000 mg/kg                            |
| Amorphous Silica | Dermal                         | Rabbit                 | LD50 > 5,000 mg/kg                             |
| Amorphous Silica | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 0.691 mg/l                              |
| Amorphous Silica | Ingestion                      | Rat                    | LD50 > 5,110 mg/kg                             |
| Chromium Oxide   | Dermal                         | Professional judgement | LD50 estimated to be > 5,000 mg/kg             |
| Chromium Oxide   | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 > 5.41 mg/l                               |
| Chromium Oxide   | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                             |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name             | Species                | Value                     |
|------------------|------------------------|---------------------------|
| Polyamide Resin  | In vitro data          | Irritant                  |
| Kaolin           | Professional judgement | No significant irritation |
| Amorphous Silica | Rabbit                 | No significant irritation |
| Chromium Oxide   | Rabbit                 | No significant irritation |

**Serious Eye Damage/Irritation**

| Name             | Species                | Value                     |
|------------------|------------------------|---------------------------|
| Polyamide Resin  | Rabbit                 | Corrosive                 |
| Kaolin           | Professional judgement | No significant irritation |
| Amorphous Silica | Rabbit                 | No significant irritation |
| Chromium Oxide   | Rabbit                 | No significant irritation |

**Skin Sensitization**

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

|                  |                   |                |
|------------------|-------------------|----------------|
| Polyamide Resin  | Mouse             | Sensitizing    |
| Amorphous Silica | Human and animal  | Not classified |
| Chromium Oxide   | similar compounds | 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  |
|------------------|----------|--|
| Polyamide Resin  | In Vitro | Not mutagenic  |
| Amorphous Silica | In Vitro | Not mutagenic  |
| Chromium Oxide   | In vivo  | Not mutagenic  |
| Chromium Oxide   | In Vitro | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name             | Route         | Species                 | Value  |
|------------------|---------------|-------------------------|--|
| Kaolin           | Inhalation    | Multiple animal species | Not carcinogenic   |
| Amorphous Silica | Not Specified | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| Chromium Oxide   | Ingestion     | Rat                     | Not carcinogenic   |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name             | Route     | Value                                  | Species | Test Result           | Exposure Duration          |
|------------------|-----------|--|---------|-----------------------|----------------------------|
| Polyamide Resin  | Ingestion | Not classified for female reproduction | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Polyamide Resin  | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 1,000 mg/kg/day | 6 weeks                    |
| Polyamide Resin  | Ingestion | Not classified for development         | Rat     | NOAEL 1,000 mg/kg/day | prematuring into lactation |
| Amorphous Silica | Ingestion | Not classified for female reproduction | Rat     | NOAEL 509 mg/kg/day   | 1 generation               |
| Amorphous Silica | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 497 mg/kg/day   | 1 generation               |
| Amorphous Silica | Ingestion | Not classified for development         | Rat     | NOAEL 1,350 mg/kg/day | during organogenesis       |
| Chromium Oxide   | Ingestion | Not classified for female reproduction | Rat     | NOAEL 2,000 mg/kg/day | 90 days                    |
| Chromium Oxide   | Ingestion | Not classified for male reproduction   | Rat     | NOAEL 2,000 mg/kg/day | 90 days                    |
| Chromium Oxide   | Ingestion | Not classified for development         | Rat     | NOAEL 2,000 mg/kg/day | 90 days                    |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name            | Route      | Target Organ(s)        | Value  | Species                | Test Result         | Exposure Duration |
|-----------------|------------|------------------------|--|------------------------|---------------------|-------------------|
| Polyamide Resin | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available |                   |

|                |            |                    |                |     |             |  |
|----------------|------------|--------------------|----------------|-----|-------------|--|
| Chromium Oxide | Inhalation | respiratory system | Not classified | Rat | NOAEL 40 mg |  |
|----------------|------------|--------------------|----------------|-----|-------------|--|

**Specific Target Organ Toxicity - repeated exposure**

| Name             | Route      | Target Organ(s)  | Value  | Species | Test Result                | Exposure Duration     |
|------------------|------------|--|--|---------|----------------------------|-----------------------|
| Polyamide Resin  | Ingestion  | heart   liver   immune system   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   nervous system   kidney and/or bladder   respiratory system   vascular system | Not classified   | Rat     | NOAEL 1,000 mg/kg/day      | 6 weeks               |
| Kaolin           | Inhalation | pneumoconiosis   | Causes damage to organs through prolonged or repeated exposure | Human   | NOAEL NA                   | occupational exposure |
| Kaolin           | Inhalation | pulmonary fibrosis   | Not classified   | Rat     | NOAEL Not available        |                       |
| Amorphous Silica | Inhalation | respiratory system   silicosis   | Not classified   | Human   | NOAEL Not available        | occupational exposure |
| Chromium Oxide   | Inhalation | immune system   respiratory system   hematopoietic system   liver   kidney and/or bladder  | Not classified   | Rat     | NOAEL 44 mg/m <sup>3</sup> | 90 days               |

**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. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. 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

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:** 2 **Flammability:** 0 **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:** 29-7186-9

**Issue Date:** 03/15/24

**Version Number:** 3.01

**Supersedes Date:** 12/15/17

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES

NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

**3M USA SDSs are available at [www.3M.com](http://www.3M.com)**