Safety Data Sheet

Copyright,2026, 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.

Document Group:	30-6942-4	**Version Number:**	5.00
Issue Date:	02/23/26	**Supersedes Date:**	02/23/24

Product identifier
3M™ Scotch-Weld™ Epoxy Adhesive EC-2815 B/A FR

ID Number(s):

87-2500-0461-8, 87-3300-0039-6, 87-3300-0135-2, HB-0042-7735-4, UU-0097-4888-8, UU-0097-4889-6

7000133734, 7100048954, 7100155466, 7100186981, 7100186982

Recommended use
Flame Resistant Structural Adhesive Paste

Supplier's details

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

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

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

30-6940-8, 30-6941-6

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

Safety Data Sheet

Copyright,2026, 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.

Document Group:	30-6940-8	**Version Number:**	7.02
Issue Date:	06/25/26	**Supersedes Date:**	12/08/22

SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Epoxy Adhesive EC-2815 B/A FR Part A

Product Identification Numbers
LA-T100-2232-5, LA-T100-2421-6, LC-B100-1186-9, LC-B100-1187-1, LC-B100-1197-2, LC-B100-1237-8, LC-B100-1237-9, LC-B100-1281-5, LC-B100-1281-6, LC-B100-1959-9, 87-3300-0041-2
7010321079

1.2. Recommended use and restrictions on use

Recommended use
Accelerator for two-part adhesive

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Automotive and Aerospace Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	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.
Acute Toxicity (oral): Category 4.
Skin Corrosion/Irritation: Category 1B.
Serious Eye Damage/Irritation: Category 1.
Skin Sensitizer: Category 1.
Specific Target Organ Toxicity (repeated exposure): Category 2.

2.2. Label elements
Signal word
Danger

Symbols
Corrosion |Exclamation mark |Health Hazard |

Pictograms



Hazard Statements
May be corrosive to metals.

Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure: kidney/urinary tract | liver | musculoskeletal system.

Precautionary statements

Prevention:
Keep only in original packaging.
Do not breathe vapors or dust.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves, protective clothing, eye protection, and face protection.

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

Storage:
Store locked up.
Store in a corrosion-resistant container with a resistant inner liner.

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

2.3. Hazards not otherwise classified
May cause chemical gastrointestinal burns.

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

30% of the mixture consists of ingredients of unknown acute oral toxicity.
30% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	4246-51-9	15 - 40 Trade Secret *
CYCLOALIPHATIC AMINE	1761-71-3	10 - 30 Trade Secret *
EPOXY RESIN REACTION PRODUCT	Non-Material	20 - 30
FLAME RETARDANT	14852-17-6	5 - 10 Trade Secret *
Filler	Trade Secret*	5 - 10
EPOXY RESIN 3	68610-41-3	3 - 7 Trade Secret *
MULTIFUNCTIONAL AMINE	52338-87-1	1 - 5 Trade Secret *
BUTADIENE-ACRYLIC COPOLYMER	Trade Secret*	< 5
FORMALDEHYDE POLYMER	135108-88-2	< 3.3
CALCIUM NITRATE TETRAHYDRATE	13477-34-4	< 1
1,3-BUTADIENE	106-99-0	< 0.05

*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 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	Condition
Carbon monoxide	During Combustion

Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

5.3. Special protective actions for fire-fighters
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

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

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a 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
For industrial/occupational use only. Not for consumer sale or use. 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.

7.2. Conditions for safe storage including any incompatibilities
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
1,3-BUTADIENE	106-99-0	ACGIH	TWA:2 ppm	A2: Suspected human carcin.
1,3-BUTADIENE	106-99-0	OSHA	TWA:1 ppm;STEL:5 ppm	29 CFR 1910.1051
Filler	Trade Secret	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3	

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

8.2. Exposure controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

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

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

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

Respiratory protection

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

Physical state	Liquid
Specific Physical Form:	Paste
Color	White
Odor	Very Mild Ammoniacal
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	*No Data Available*
Boiling Point	>=200 ºF
Flash Point	>=200 ºF [*Test Method:*Closed Cup]
Evaporation rate	*Not Applicable*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Relative Vapor Density	*No Data Available*
Density	1.2 g/ml [@ 20 ºC]
Relative Density	1.2 [*Ref Std:*WATER=1]
Solubility in Water	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	*No Data Available*
Volatile Organic Compounds	*No Data Available*
Percent volatile	Negligible
VOC Less H2O & Exempt Solvents	*No Data Available*
Particle Characteristics	*Not Applicable*

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

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.

Skin Contact:
May be harmful in contact with skin. Corrosive (Skin Burns): Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

Ingestion:
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:

Prolonged or repeated exposure may cause target organ effects:
Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Muscular Effects: Signs/symptoms may include generalized muscle weakness, paralysis and atrophy. Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation	13477-34-4	Grp. 2A: Probable human carc.	International Agency for Research on Cancer
1,3-Butadiene	106-99-0	Known To Be Human Carcinogen.	National Toxicology Program Carcinogens
1,3-Butadiene	106-99-0	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
1,3-BUTADIENE	106-99-0	Cancer hazard	OSHA Carcinogens

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

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

Acute Toxicity

Name	Route	Species	Value

Overall product	Dermal		No data available; calculated ATE >2,000 - =5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Dermal	Rabbit	LD50 2,525 mg/kg
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	Rat	LD50 2,850 mg/kg
CYCLOALIPHATIC AMINE	Dermal	Rabbit	LD50 2,110 mg/kg
CYCLOALIPHATIC AMINE	Ingestion	Rat	LD50 350 mg/kg
FLAME RETARDANT	Inhalation-Vapor	Professional judgement	LC50 estimated to be > 50 mg/l
FLAME RETARDANT	Dermal	Rat	LD50 > 2,000 mg/kg
FLAME RETARDANT	Ingestion	Rat	LD50 > 2,000 mg/kg
Filler	Dermal	similar compounds	LD50 > 5,000 mg/kg
Filler	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 5.01 mg/l
Filler	Ingestion	similar compounds	LD50 > 5,000 mg/kg
EPOXY RESIN 3	Dermal	Not available	LD50 3,000 mg/kg
EPOXY RESIN 3	Ingestion	Not available	LD50 > 34,000 mg/kg
FORMALDEHYDE POLYMER	Dermal	Rat	LD50 > 700 mg/kg
FORMALDEHYDE POLYMER	Ingestion	Rat	LD50 300 mg/kg
MULTIFUNCTIONAL AMINE	Dermal	Rat	LD50 > 2,050 mg/kg
MULTIFUNCTIONAL AMINE	Ingestion	Rat	LD50 5,125 mg/kg
CALCIUM NITRATE TETRAHYDRATE	Ingestion	Rat	LD50 >300, <2000 mg/kg
CALCIUM NITRATE TETRAHYDRATE	Dermal	similar compounds	LD50 > 2,000 mg/kg
1,3-BUTADIENE	Inhalation-Gas (4 hours)	Rat	LC50 129,000 ppm
1,3-BUTADIENE	Ingestion	Rat	LD50 5,480 mg/kg
1,3-BUTADIENE	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Rabbit	Corrosive
CYCLOALIPHATIC AMINE	Rabbit	Corrosive
FLAME RETARDANT	Rabbit	No significant irritation
Filler	similar compounds	No significant irritation
EPOXY RESIN 3	similar compounds	Irritant
FORMALDEHYDE POLYMER	In vitro data	Corrosive
MULTIFUNCTIONAL AMINE	Rabbit	No significant irritation
CALCIUM NITRATE TETRAHYDRATE	similar compounds	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value

4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Rabbit	Corrosive
CYCLOALIPHATIC AMINE	Rabbit	Corrosive
FLAME RETARDANT	Rabbit	No significant irritation
Filler	similar compounds	No significant irritation
EPOXY RESIN 3	similar compounds	Severe irritant
FORMALDEHYDE POLYMER	similar health hazards	Corrosive
MULTIFUNCTIONAL AMINE	Rabbit	Corrosive
CALCIUM NITRATE TETRAHYDRATE	Rabbit	Corrosive
1,3-BUTADIENE	Human	Mild irritant

Skin Sensitization

Name	Species	Value
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Professional judgement	Sensitizing
CYCLOALIPHATIC AMINE	Guinea pig	Sensitizing
FLAME RETARDANT	similar compounds	Sensitizing
Filler	similar compounds	Not classified
EPOXY RESIN 3	similar compounds	Sensitizing
FORMALDEHYDE POLYMER	Professional judgement	Sensitizing
MULTIFUNCTIONAL AMINE	Guinea pig	Not classified
CALCIUM NITRATE TETRAHYDRATE	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
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	In Vitro	Not mutagenic
FLAME RETARDANT	In Vitro	Not mutagenic
FLAME RETARDANT	In vivo	Not mutagenic
Filler	In Vitro	Not mutagenic
FORMALDEHYDE POLYMER	In Vitro	Not mutagenic
MULTIFUNCTIONAL AMINE	In Vitro	Not mutagenic
MULTIFUNCTIONAL AMINE	In vivo	Not mutagenic
CALCIUM NITRATE TETRAHYDRATE	In Vitro	Not mutagenic
1,3-BUTADIENE	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,3-BUTADIENE	In vivo	Mutagenic

Carcinogenicity

Name	Route	Species	Value

1,3-BUTADIENE	Inhalation	Human and animal	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	Not classified for female reproduction	Rat	NOAEL 600 mg/kg/day	premating into lactation
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	Not classified for male reproduction	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	Not classified for development	Rat	NOAEL 600 mg/kg/day	premating into lactation
FLAME RETARDANT	Ingestion	Not classified for female reproduction	Rat	NOAEL 150 mg/kg/day	premating into lactation
FLAME RETARDANT	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	33 days
FLAME RETARDANT	Ingestion	Not classified for development	Rat	NOAEL 150 mg/kg/day	premating into lactation
FORMALDEHYDE POLYMER	Ingestion	Not classified for female reproduction	Rat	NOAEL 140 mg/kg/day	premating into lactation
FORMALDEHYDE POLYMER	Ingestion	Not classified for male reproduction	Rat	NOAEL 140 mg/kg/day	28 days
FORMALDEHYDE POLYMER	Ingestion	Not classified for development	Rat	NOAEL 280 mg/kg/day	during gestation
MULTIFUNCTIONAL AMINE	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	during gestation
CALCIUM NITRATE TETRAHYDRATE	Ingestion	Not classified for female reproduction	similar compounds	NOAEL 1,500 mg/kg/day	premating into lactation
CALCIUM NITRATE TETRAHYDRATE	Ingestion	Not classified for male reproduction	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	Not classified for development	similar compounds	NOAEL 1,500 mg/kg/day	premating into lactation
1,3-BUTADIENE	Inhalation	Not classified for development	Mouse	NOAEL 40 ppm	during gestation
1,3-BUTADIENE	Inhalation	Toxic to female reproduction	Mouse	LOAEL 6.25 ppm	2 years
1,3-BUTADIENE	Inhalation	Toxic to male reproduction	Mouse	NOAEL 200 ppm	2 years

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
CYCLOALIPHATIC AMINE	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
FORMALDEHYDE POLYMER	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
MULTIFUNCTIONAL AMINE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not Available	
CALCIUM NITRATE TETRAHYDRATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

CALCIUM NITRATE TETRAHYDRATE	Ingestion	methemoglobinemia	Causes damage to organs	Human	NOAEL Not available	environmental exposure
1,3-BUTADIENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	heart	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	endocrine system	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	liver	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	immune system	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	muscles	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	eyes	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	Ingestion	vascular system	Not classified	Rat	NOAEL 600 mg/kg/day	59 days
CYCLOALIPHATIC AMINE	Ingestion	liver	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	36 days
CYCLOALIPHATIC AMINE	Ingestion	muscles	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	36 days
FLAME RETARDANT	Ingestion	heart	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
FLAME RETARDANT	Ingestion	endocrine system	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
FLAME RETARDANT	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
FLAME RETARDANT	Ingestion	liver	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
FLAME RETARDANT	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
FLAME RETARDANT	Ingestion	eyes	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
FLAME RETARDANT	Ingestion	kidney and/or	Not classified	Rat	NOAEL 600	28 days

		bladder			mg/kg/day	
FORMALDEHYDE POLYMER	Ingestion	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	28 days
FORMALDEHYDE POLYMER	Ingestion	endocrine system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
FORMALDEHYDE POLYMER	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
FORMALDEHYDE POLYMER	Ingestion	liver	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
FORMALDEHYDE POLYMER	Ingestion	nervous system	Not classified	Rat	NOAEL 300 mg/kg/day	28 days
MULTIFUNCTIONAL AMINE	Ingestion	blood	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
MULTIFUNCTIONAL AMINE	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
MULTIFUNCTIONAL AMINE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	heart	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	skin	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	endocrine system	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	bone, teeth, nails, and/or hair	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	hematopoietic system	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	liver	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	immune system	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	nervous system	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	eyes	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	kidney and/or bladder	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	respiratory system	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
CALCIUM NITRATE TETRAHYDRATE	Ingestion	vascular system	Not classified	similar compounds	NOAEL 1,500 mg/kg/day	28 days
1,3-BUTADIENE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 200 ppm	2 years
1,3-BUTADIENE	Inhalation	heart	Not classified	Mouse	NOAEL 625 ppm	2 years
1,3-BUTADIENE	Inhalation	gastrointestinal tract	Not classified	Mouse	NOAEL 625 ppm	2 years
1,3-BUTADIENE	Inhalation	immune system	Not classified	Mouse	NOAEL 625 ppm	2 years
1,3-BUTADIENE	Inhalation	respiratory system	Not classified	Mouse	NOAEL 625 ppm	2 years
1,3-BUTADIENE	Inhalation	vascular system	Not classified	Mouse	NOAEL 625 ppm	2 years

1,3-BUTADIENE	Inhalation	endocrine system	Not classified	Mouse	NOAEL 625 ppm	2 years
1,3-BUTADIENE	Inhalation	liver	Not classified	Mouse	NOAEL 625 ppm	2 years
1,3-BUTADIENE	Inhalation	nervous system	Not classified	Mouse	NOAEL 625 ppm	2 years
1,3-BUTADIENE	Inhalation	kidney and/or bladder	Not classified	Mouse	NOAEL 625 ppm	2 years

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. 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

Acute toxicity
Hazard Not Otherwise Classified (HNOC)
Respiratory or Skin Sensitization
Serious eye damage or eye irritation
Skin Corrosion or Irritation
Specific target organ toxicity (single or repeated exposure)

15.2. State Regulations
Contact 3M for more information.

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

Contact 3M for more information.

15.4. International Regulations
Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification
Health: 3 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

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

Document Group:	30-6940-8	**Version Number:**	7.02
Issue Date:	06/25/26	**Supersedes Date:**	12/08/22

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

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.

Document Group:	30-6941-6	**Version Number:**	5.01
Issue Date:	02/23/24	**Supercedes Date:**	12/08/22

SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Epoxy Adhesive EC-2815 B/A FR Part B

Product Identification Numbers
LA-T100-2265-5, LA-T100-2421-7, LC-B100-1187-2, LC-B100-1187-3, LC-B100-1197-3, LC-B100-1237-6, LC-B100-1237-7, LC-B100-1281-7, LC-B100-1281-8, LC-B100-1960-0, 87-3300-0040-4
7010399462

1.2. Recommended use and restrictions on use

Recommended use
Base for two-part adhesive

1.3. Supplier's details

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

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Skin Corrosion/Irritation: Category 2.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms



Hazard Statements
Causes skin irritation.
May cause an allergic skin reaction.

Precautionary Statements

Prevention:
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wear protective gloves.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response:
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.

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

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

3% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
NON-HAZARDOUS INGREDIENTS	Trade Secret*	50 - 70
EPOXY RESIN 1	14228-73-0	15 - 35 Trade Secret *
EPOXY RESIN 2	25085-99-8	< 10 Trade Secret *
FLAME RETARDANT	14852-17-6	1 - 5 Trade Secret *
Silane, hexadecyltrimethoxy-, hydrolysis products with silica	199876-45-4	1 - 5
TITANIUM DIOXIDE	13463-67-7	< 5 Trade Secret *
BUTADIENE-ACRYLIC COPOLYMER	Trade Secret*	< 5

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get

medical attention.

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

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

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

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

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

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

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. Store away from amines.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
TITANIUM DIOXIDE	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcin.
TITANIUM DIOXIDE	13463-67-7	OSHA	TWA(as total dust):15 mg/m3	
SILICA, AMORPHOUS	199876-45-4	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 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

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	Off-White
Specific Physical Form:	Paste
Odor	Very Mild Odor
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	*No Data Available*
Boiling Point	>=200 ºF
Flash Point	Flash point > 93 °C (200 °F) [*Test Method:*Closed Cup]
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*No Data Available*
Vapor Density	*No Data Available*
Density	1.4 g/ml [@ 20 ºC]
Specific Gravity	1.4 [*Ref Std:*WATER=1]
Solubility In Water	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Viscosity	*No Data Available*
Volatile Organic Compounds	0 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	*No Data Available*

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

10.5. Incompatible materials
Amines

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.

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

Ingestion:
May be harmful if swallowed.
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Carcinogenicity:

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

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

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

Acute Toxicity

Name	Route	Species	Value

Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
NON-HAZARDOUS INGREDIENTS	Dermal	Rabbit	LD50 > 2,000 mg/kg
NON-HAZARDOUS INGREDIENTS	Ingestion	Rat	LD50 > 16,000 mg/kg
EPOXY RESIN 1	Dermal	Rabbit	LD50 > 2,000 mg/kg
EPOXY RESIN 1	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.19 mg/l
EPOXY RESIN 1	Ingestion	Rat	LD50 1,098 mg/kg
EPOXY RESIN 2	Dermal	Rat	LD50 > 1,600 mg/kg
EPOXY RESIN 2	Ingestion	Rat	LD50 > 1,000 mg/kg
FLAME RETARDANT	Inhalation-Vapor	Professional judgement	LC50 estimated to be > 50 mg/l
FLAME RETARDANT	Dermal	Rat	LD50 > 2,000 mg/kg
FLAME RETARDANT	Ingestion	Rat	LD50 > 2,000 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 1	In vitro data	Irritant
EPOXY RESIN 2	Rabbit	Mild irritant
FLAME RETARDANT	Rabbit	No significant irritation
TITANIUM DIOXIDE	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
EPOXY RESIN 1	In vitro data	No significant irritation
EPOXY RESIN 2	Rabbit	Moderate irritant
FLAME RETARDANT	Rabbit	No significant irritation
TITANIUM DIOXIDE	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
EPOXY RESIN 1	Mouse	Sensitizing
EPOXY RESIN 2	Human and animal	Sensitizing
FLAME RETARDANT	similar compounds	Sensitizing
TITANIUM DIOXIDE	Human and animal	Not classified

Respiratory Sensitization

Name	Species	Value
EPOXY RESIN 2	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value

EPOXY RESIN 1	In vivo	Not mutagenic
EPOXY RESIN 1	In Vitro	Some positive data exist, but the data are not sufficient for classification
EPOXY RESIN 2	In vivo	Not mutagenic
EPOXY RESIN 2	In Vitro	Some positive data exist, but the data are not sufficient for classification
FLAME RETARDANT	In Vitro	Not mutagenic
FLAME RETARDANT	In vivo	Not mutagenic
TITANIUM DIOXIDE	In Vitro	Not mutagenic
TITANIUM DIOXIDE	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
EPOXY RESIN 2	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
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 1	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	premating into lactation
EPOXY RESIN 1	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	33 days
EPOXY RESIN 1	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	premating into lactation
EPOXY RESIN 2	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
EPOXY RESIN 2	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
EPOXY RESIN 2	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
EPOXY RESIN 2	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
FLAME RETARDANT	Ingestion	Not classified for female reproduction	Rat	NOAEL 150 mg/kg/day	premating into lactation
FLAME RETARDANT	Ingestion	Not classified for male reproduction	Rat	NOAEL 150 mg/kg/day	33 days
FLAME RETARDANT	Ingestion	Not classified for development	Rat	NOAEL 150 mg/kg/day	premating into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
EPOXY RESIN 1	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
EPOXY RESIN 1	Ingestion	endocrine system | gastrointestinal tract | liver | heart |	Not classified	Rat	NOAEL 300 mg/kg/day	33 days

		hematopoietic system | immune system | nervous system | kidney and/or bladder				
EPOXY RESIN 2	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
EPOXY RESIN 2	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
EPOXY RESIN 2	Ingestion	auditory system | heart | endocrine system | hematopoietic system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
FLAME RETARDANT	Ingestion	heart | endocrine system | hematopoietic system | liver | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
TITANIUM DIOXIDE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
TITANIUM DIOXIDE	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

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

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

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
Skin Corrosion or Irritation

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

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

SECTION 16: Other information

NFPA Hazard Classification

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

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

Document Group:	30-6941-6	**Version Number:**	5.01
Issue Date:	02/23/24	**Supercedes Date:**	12/08/22

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