

Safety Data Sheet

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 Document Group:
 28-6195-3
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 03/24/15
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Product identifier

3MTM Scotch-WeldTM Structural Void Filling Compound EC-3555 B/A FST

ID Number	UPC	ID Number	UPC
87-2500-0384-2	00048011986227	87-2500-0392-5	00048011986289
87-2500-0427-9	00048011986630	87-2500-0428-7	00048011986647

Recommended use

Void Filling Compound

Supplier's details

MANUFACTURER: 3M

DIVISION: Aerospace and Commercial Transportation 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:

29-2175-7, 28-6011-2

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3MTM Scotch-WeldTM Structural Void Filling Compound EC-3555 B/A FST 03/24/15



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5.00 **Document Group:** 28-6011-2 **Version Number: Issue Date:** 03/09/15 04/06/12 **Supercedes Date:**

SECTION 1: Identification

1.1. Product identifier

3MTM Scotch-WeldTM Structural Void Filling Compound EC-3555 B/A FST, Part A

Product Identification Numbers

LC-B100-1197-5, LC-B100-0840-9, LC-B100-0841-0, LC-B100-0911-1, LC-B100-0911-2, 41-4901-0148-6, 87-2500-0457-

1.2. Recommended use and restrictions on use

Recommended use

Structural adhesive

1.3. Supplier's details

MANUFACTURER:

DIVISION: Aerospace and Commercial Transportation 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.

Serious Eye Damage/Irritation: Category 1.

Skin Corrosion/Irritation: Category 1B.

Skin Sensitizer: Category 1.

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

2.2. Label elements

Signal word

Danger

Symbols

Corrosion | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Causes damage to organs:

blood or blood-forming organs

Precautionary Statements

Prevention:

Keep only in original container.

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

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

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

Wash thoroughly after handling.

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

Response:

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

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

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

Continue rinsing.

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

Wash contaminated clothing before reuse.

IF exposed: Call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

Storage:

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

Store locked up.

Disposal:

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

2.3. Hazards not otherwise classified

May cause chemical gastrointestinal burns.

50% of the mixture consists of ingredients of unknown acute oral toxicity.

57% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
POLYMERIC EPOXY REACTION PRODUCT	None	30 - 50

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ALUMINA TRIHYDRATE	21645-51-2	20 - 40
GLASS BUBBLES	65997-17-3	5 - 30
POLY(OXYPROPYLENE)DIAMINE	9046-10-0	5 - 15 Trade Secret *
WATER	7732-18-5	1 - 10
EPOXY RESIN	28064-14-4	1 - 10 Trade Secret *
TRIS(2,4,6-	90-72-2	1 - 10 Trade Secret *
DIMETHYLAMINOMONOMETHYL)PHENOL		
TREATED AMORPHOUS SILICA	67762-90-7	0.5 - 10
CALCIUM SALT	13477-34-4	0 - 5 Trade Secret *
ZINC BORATE	1332-07-6	1 - 5 Trade Secret *
	1332 07 0	1 3 Trade Secret
LIMESTONE	1317-65-3	1 - 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 flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Eye Contact:

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

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance
Carbon monoxide
Carbon dioxide

Condition

During Combustion During Combustion

5.3. Special protective actions for fire-fighters

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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

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.

7.2. Conditions for safe storage including any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
LIMESTONE	1317-65-3	OSHA	TWA(as total dust):15	
			mg/m3;TWA(respirable	
			fraction):5 mg/m3	
Aluminum, insoluble compounds	21645-51-2	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin
GLASS BUBBLES	65997-17-3	Manufacturer	TWA(as dust):10 mg/m3	
		determined		
TREATED AMORPHOUS	67762-90-7	CMRG	CEIL:5 mg/m3	
SILICA				
TRIS(2,4,6-	90-72-2	CMRG	TWA:5 ppm	
DIMETHYLAMINOMONOME				

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THYL)PHENOL

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

Safety Glasses with side shields

Indirect Vented Goggles

Skin/hand protection

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

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

General Physical Form: Specific Physical Form:

Odor, Color, Grade: Low odor; white paste **Odor threshold** No Data Available pН Not Applicable **Melting point** Not Applicable **Boiling Point** Not Applicable

Flash Point >=200 °F [Test Method: Closed Cup]

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Evaporation rate No Data Available Flammability (solid, gas) Not Applicable Flammable Limits(LEL) Not Applicable Not Applicable Flammable Limits(UEL) **Vapor Pressure** Negligible **Vapor Density** No Data Available

Specific Gravity 0.5 - 0.7 [Ref Std: WATER=1]

Solubility in Water Negligible

Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available No Data Available **Autoignition temperature Decomposition temperature** No Data Available Viscosity No Data Available

Volatile Organic Compounds <=1.1 g/l [Test Method: calculated SCAOMD rule 443.1] **VOC Less H2O & Exempt Solvents** <=1.1 g/l [Test Method: calculated SCAQMD rule 443.1]

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

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

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.

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

Skin Contact:

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.

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

Single exposure may cause target organ effects:

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

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
GLASS BUBBLES	Dermal		LD50 estimated to be > 5,000 mg/kg
GLASS BUBBLES	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
ALUMINA TRIHYDRATE	Dermal		LD50 estimated to be > 5,000 mg/kg
ALUMINA TRIHYDRATE	Ingestion	Rat	LD50 > 5,000 mg/kg
POLY(OXYPROPYLENE)DIAMINE	Dermal	Rabbit	LD50 > 1,000 mg/kg
POLY(OXYPROPYLENE)DIAMINE	Ingestion	Rat	LD50 >= 475 mg/kg
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL	Dermal	Rat	LD50 1,280 mg/kg
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL	Ingestion	Rat	LD50 1,000 mg/kg
EPOXY RESIN	Dermal	Rabbit	LD50 > 6,000 mg/kg
EPOXY RESIN	Inhalation-	Rat	LC50 > 1.7 mg/l
	Dust/Mist		
	(4 hours)		
EPOXY RESIN	Ingestion	Rat	LD50 > 4,000 mg/kg
ZINC BORATE	Dermal	Rabbit	LD50 > 10,000 mg/kg

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ZINC BORATE	Ingestion	Rat	LD50 > 10,000 mg/kg
LIMESTONE	Dermal	Rat	LD50 > 2,000 mg/kg
LIMESTONE	Inhalation-	Rat	LC50 3.0 mg/l
	Dust/Mist		
	(4 hours)		
LIMESTONE	Ingestion	Rat	LD50 6,450 mg/kg
BIS[(DIMETHYLAMINO)METHYL]PHENOL	Ingestion		LD50 estimated to be 300 - 2,000 mg/kg
TREATED AMORPHOUS SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
TREATED AMORPHOUS SILICA	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
TREATED AMORPHOUS SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg

 \overline{ATE} = acute toxicity estimate

Skin Corrosion/Irritation

Name		Value	
GLASS BUBBLES	Professio	No significant irritation	
	nal		
	judgeme		
	nt		
ALUMINA TRIHYDRATE	Rabbit	No significant irritation	
POLY(OXYPROPYLENE)DIAMINE	Rabbit	Corrosive	
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL	Rabbit	Corrosive	
EPOXY RESIN	Rabbit	Minimal irritation	
LIMESTONE	Rabbit	No significant irritation	
BIS[(DIMETHYLAMINO)METHYL]PHENOL	similar	Corrosive	
	compoun		
	ds		
TREATED AMORPHOUS SILICA	Rabbit	No significant irritation	

Serious Eve Damage/Irritation

Name	Species	Value
GLASS BUBBLES	Professio	No significant irritation
	nal	
	judgeme	
	nt	
ALUMINA TRIHYDRATE	Rabbit	No significant irritation
POLY(OXYPROPYLENE)DIAMINE	Rabbit	Corrosive
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL	Rabbit	Corrosive
EPOXY RESIN	Rabbit	Mild irritant
LIMESTONE	Rabbit	No significant irritation
BIS[(DIMETHYLAMINO)METHYL]PHENOL	similar	Corrosive
	compoun	
	ds	
TREATED AMORPHOUS SILICA	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
ALUMINA TRIHYDRATE	Guinea	Not sensitizing
	pig	
POLY(OXYPROPYLENE)DIAMINE	Guinea	Not sensitizing
	pig	
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL	Guinea	Some positive data exist, but the data are not
	pig	sufficient for classification
EPOXY RESIN	Human	Sensitizing
	and	
	animal	
TREATED AMORPHOUS SILICA	Human	Not sensitizing
	and	
	animal	

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	
GLASS BUBBLES	In Vitro	Some positive data exist, but the data are not sufficient for classification	
POLY(OXYPROPYLENE)DIAMINE	In Vitro	Not mutagenic	
POLY(OXYPROPYLENE)DIAMINE	In vivo	Not mutagenic	
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL	In Vitro	Not mutagenic	
EPOXY RESIN	In Vitro	Some positive data exist, but the data are not sufficient for classification	
TREATED AMORPHOUS SILICA	In Vitro	Not mutagenic	

Carcinogenicity

Name	Route	Species	Value
GLASS BUBBLES	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
ALUMINA TRIHYDRATE	Not Specified	Multiple animal species	Not carcinogenic
TREATED AMORPHOUS SILICA	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
ALUMINA TRIHYDRATE	Ingestion	Not toxic to development	Rat	NOAEL 768 mg/kg/day	during organogenesi s
POLY(OXYPROPYLENE)DIAMINE	Dermal	Not toxic to female reproduction	Rat	NOAEL 30 mg/kg/day	premating & during gestation
POLY(OXYPROPYLENE)DIAMINE	Dermal	Not toxic to male reproduction	Rat	NOAEL 30 mg/kg/day	premating & during gestation
POLY(OXYPROPYLENE)DIAMINE	Dermal	Not toxic to development	Rat	NOAEL 30 mg/kg/day	premating & during gestation
LIMESTONE	Ingestion	Not toxic to development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
TREATED AMORPHOUS SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
TREATED AMORPHOUS SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
TREATED AMORPHOUS SILICA	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
POLY(OXYPROPYLENE)DIAMINE	Inhalation	respiratory irritation	May cause respiratory irritation		NOAEL Not available	
TRIS(2,4,6- DIMETHYLAMINOMON OMETHYL)PHENOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
LIMESTONE	Inhalation	respiratory system	All data are negative	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
GLASS BUBBLES	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL not available	occupational exposure
TRIS(2,4,6- DIMETHYLAMINOMON OMETHYL)PHENOL	Dermal	skin liver nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 125 mg/kg/day	28 days
TRIS(2,4,6- DIMETHYLAMINOMON OMETHYL)PHENOL	Dermal	auditory system hematopoietic system eyes	All data are negative	Rat	NOAEL 125 mg/kg/day	28 days
LIMESTONE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
TREATED AMORPHOUS SILICA	Inhalation	respiratory system silicosis	All data are negative	Human	NOAEL Not available	occupational exposure

Asniration Hazard

PI WIVI IIWEWI W						
Name	Value					
POLY(OXYPROPYLENE)DIAMINE	Some positive data exist, but the data are not sufficient for					
	classification					

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of 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): 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.

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SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

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

Ingredient	C.A.S. No	<u>% by Wt</u>
CALCIUM SALT (NITRATE COMPOUNDS	13477-34-4	0 - 5
(WATER DISSOCIABLE; REPORTABLE		
ONLY WHEN IN AQUEOUS SOLUTION))		
ZINC BORATE (ZINC COMPOUNDS)	1332-07-6	1 - 5

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

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.

5.00 **Document Group:** 28-6011-2 **Version Number:** 03/09/15 04/06/12 **Issue Date: Supercedes Date:**

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Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier

3MTM Scotch-WeldTM Structural Void Filling Compound EC-3550 and EC-3555 B/A FST, Part B

Product Identification Numbers

LC-B100-1058-3, LC-B100-1058-4, LC-B100-0907-2, LC-B100-0909-6, 87-2500-0456-8, 87-2500-0483-2

1.2. Recommended use and restrictions on use

Recommended use

Base for two component void filling compound

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Aerospace and Commercial Transportation 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

Serious Eye Damage/Irritation: Category 2A. Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1. Carcinogenicity: Category 2.

2.2. Label elements

Signal word

Warning

Exclamation mark | Health Hazard |

Pictograms





Hazard Statements

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

Precautionary Statements

Prevention:

Obtain special instructions before use.

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

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

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

Response:

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

Continue rinsing.

If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage:

Store locked up.

Disposal:

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

2.3. Hazards not otherwise classified

None.

2% of the mixture consists of ingredients of unknown acute oral toxicity.

12% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
EPOXY RESIN	28064-14-4	25 - 35 Trade Secret *
GLASS BUBBLES	65997-17-3	10 - 30
EPOXY RESIN	14228-73-0	10 - 20 Trade Secret *
ALUMINA TRIHYDRATE	21645-51-2	10 - 20
GRAPHITE	7782-42-5	5 - 15
ZINC BORATE	1332-07-6	1 - 10 Trade Secret *
EPOXY RESIN	25068-38-6	1 - 10 Trade Secret *
SILANE	2530-83-8	0.1 - 5 Trade Secret *
LIMESTONE	1317-65-3	1 - 5
TREATED AMORPHOUS SILICA	67762-90-7	0.5 - 5
RED PHOSPHORUS	7723-14-0	<= 3 Trade Secret *

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PHOSPHORIC ACID POLYESTER	Trade Secret*	0.1 - 2
SULFURIC ACID	7664-93-9	0 - 1 Trade Secret *
NICKEL	7440-02-0	< 0.5 Trade Secret *

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

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

Skin Contact:

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

Eye Contact:

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

If Swallowed:

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

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance	<u>Condition</u>
Aldehydes	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	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. Warning! A motor could be an ignition

source and could cause flammable gases or vapors in the spill area to burn or explode. 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
LIMESTONE	1317-65-3	OSHA	TWA(as total dust):15	
			mg/m3;TWA(respirable	
			fraction):5 mg/m3	
Aluminum, insoluble compounds	21645-51-2	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin
SILANE	2530-83-8	CMRG	TWA:5 ppm	
GLASS BUBBLES	65997-17-3	Manufacturer	TWA(as dust):10 mg/m3	
		determined		
TREATED AMORPHOUS	67762-90-7	CMRG	CEIL:5 mg/m3	
SILICA				
SILICA, AMORPHOUS	67762-90-7	OSHA	TWA concentration:0.8	
			mg/m3;TWA:20 millions of	
			particles/cu. ft.	
NICKEL	7440-02-0	OSHA	TWA(as Ni):1 mg/m3	
NICKEL	7440-02-0	ACGIH	TWA(inhalable fraction):1.5	A5: Not suspected
			mg/m3	human carcin
SULFURIC ACID	7664-93-9	ACGIH	TWA(thoracic fraction):0.2	
			mg/m3	
SULFURIC ACID	7664-93-9	CMRG	TWA:1 mg/m3;STEL:2	
			mg/m3	

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STRONG INORGANIC ACID	7664-93-9	ACGIH	Limit value not established:	A2: Suspected human
MISTS CONTAINING				carcin.
SULFURIC ACID				
SULFURIC ACID	7664-93-9	OSHA	TWA:1 mg/m3	
RED PHOSPHORUS	7723-14-0	OSHA	TWA:0.1 mg/m3	
Phosphorus, mol. (P4)	7723-14-0	ACGIH	TWA:0.1 mg/m3	
GRAPHITE	7782-42-5	OSHA	TWA:15 millions of	
			particles/cu. ft.	
GRAPHITE SYNTHETIC	7782-42-5	OSHA	TWA(as total dust):15	
			mg/m3;TWA(respirable	
			fraction):5 mg/m3	
GRAPHITE	7782-42-5	ACGIH	TWA(respirable fraction):2	
			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:

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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:

Specific Physical Form:

Viscous

Odor, Color, Grade:Low odor, brown pasteOdor thresholdNo Data AvailablepHNot ApplicableMelting pointNot ApplicableBoiling PointNot Applicable

Flash Point >=200 °F [Test Method: Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not ApplicableVapor PressureNegligibleVapor DensityNo Data Available

Specific Gravity 0.5 - 0.7 [Ref Std: WATER=1]

Solubility in Water Negligible

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityNo Data Available

Percent volatile Negligible

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

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

10.5. Incompatible materials

Strong acids

10.6. Hazardous decomposition products

<u>Substance</u> <u>Condition</u>

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

Dago 6 of

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

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

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.

Eve Contact:

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

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

Ingestion:

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

Additional Health Effects:

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
NICKEL COMPOUNDS	7440-02-0	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
NICKEL	7440-02-0	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
NICKEL	7440-02-0	Anticipated human carcinogen	National Toxicology Program Carcinogens

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE > 5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
EPOXY RESIN	Dermal	Rabbit	LD50 > 6,000 mg/kg
EPOXY RESIN	Inhalation-	Rat	LC50 > 1.7 mg/l
	Dust/Mist		

	(4 hours)		
EPOXY RESIN	Ingestion	Rat	LD50 > 4,000 mg/kg
GLASS BUBBLES	Dermal		LD50 estimated to be > 5,000 mg/kg
GLASS BUBBLES	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
EPOXY RESIN	Dermal	Rabbit	LD50 2,500 mg/kg
EPOXY RESIN	Ingestion	Rat	LD50 2,450 mg/kg
ALUMINA TRIHYDRATE	Dermal		LD50 estimated to be > 5,000 mg/kg
ALUMINA TRIHYDRATE	Ingestion	Rat	LD50 > 5,000 mg/kg
GRAPHITE	Ingestion	Rat	LD50 > 2,000 mg/kg
EPOXY RESIN	Dermal	Rat	LD50 > 1,600 mg/kg
EPOXY RESIN	Ingestion	Rat	LD50 > 1,000 mg/kg
ZINC BORATE	Dermal	Rabbit	LD50 > 10,000 mg/kg
ZINC BORATE	Ingestion	Rat	LD50 > 10,000 mg/kg
RED PHOSPHORUS	Inhalation-	Rat	LC50 1.1 mg/l
	Dust/Mist		
	(4 hours)		
RED PHOSPHORUS	Ingestion	Rat	LD50 > 15,000 mg/kg
LIMESTONE	Dermal	Rat	LD50 > 2,000 mg/kg
LIMESTONE	Inhalation-	Rat	LC50 3.0 mg/l
	Dust/Mist		
	(4 hours)		
LIMESTONE	Ingestion	Rat	LD50 6,450 mg/kg
SILANE	Dermal	Rabbit	LD50 4,000 mg/kg
TREATED AMORPHOUS SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
SILANE	Inhalation-	Rat	LC50 > 5.3 mg/l
	Dust/Mist		
	(4 hours)		
SILANE	Ingestion	Rat	LD50 7,010 mg/kg
TREATED AMORPHOUS SILICA	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
TREATED AMORPHOUS SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg
NICKEL	Dermal		LD50 estimated to be > 5,000 mg/kg
NICKEL	Inhalation-	Rat	LC50 > 2.55 mg/l
	Dust/Mist		
	(4 hours)		
NICKEL	Ingestion	Rat	LD50 > 9,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
EPOXY RESIN	Rabbit	Minimal irritation
GLASS BUBBLES	Professio	No significant irritation
	nal	
	judgeme	
	nt	
EPOXY RESIN	Professio	Mild irritant
	nal	
	judgeme	
	nt	
ALUMINA TRIHYDRATE	Rabbit	No significant irritation
GRAPHITE	Rabbit	No significant irritation
EPOXY RESIN	Rabbit	Mild irritant
LIMESTONE	Rabbit	No significant irritation
SILANE	Rabbit	Mild irritant
TREATED AMORPHOUS SILICA	Rabbit	No significant irritation
NICKEL	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
EPOXY RESIN	Rabbit	Mild irritant
GLASS BUBBLES	Professio	No significant irritation
	nal	
	judgeme	

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	nt	
EPOXY RESIN	Professio	Mild irritant
	nal	
	judgeme	
	nt	
ALUMINA TRIHYDRATE	Rabbit	No significant irritation
GRAPHITE	Rabbit	No significant irritation
EPOXY RESIN	Rabbit	Moderate irritant
LIMESTONE	Rabbit	No significant irritation
SILANE	Rabbit	Corrosive
TREATED AMORPHOUS SILICA	Rabbit	No significant irritation
NICKEL	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
EPOXY RESIN	Human	Sensitizing
	and	
	animal	
EPOXY RESIN	similar	Sensitizing
	compoun	
	ds	
ALUMINA TRIHYDRATE	Guinea	Not sensitizing
	pig	
EPOXY RESIN	Human	Sensitizing
	and	
	animal	
SILANE	Guinea	Some positive data exist, but the data are not
	pig	sufficient for classification
TREATED AMORPHOUS SILICA	Human	Not sensitizing
	and	
	animal	
NICKEL	Human	Sensitizing

Respiratory Sensitization

Name	Species	Value
EPOXY RESIN	Human	Some positive data exist, but the data are not
		sufficient for classification

Germ Cell Mutagenicity

Name	Route	Value		
EPOXY RESIN	In Vitro	Some positive data exist, but the data are not sufficient for classification		
GLASS BUBBLES	In Vitro	Some positive data exist, but the data are not sufficient for classification		
GRAPHITE	In Vitro	Some positive data exist, but the data are not sufficient for classification		
EPOXY RESIN	In vivo	Not mutagenic		
EPOXY RESIN	In Vitro	Some positive data exist, but the data are not sufficient for classification		
SILANE	In vivo	Not mutagenic		
SILANE	In Vitro	Some positive data exist, but the data are not sufficient for classification		
TREATED AMORPHOUS SILICA	In Vitro	Not mutagenic		

Carcinogenicity

Name	Route	Species	Value
GLASS BUBBLES	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
ALUMINA TRIHYDRATE	Not Specified	Multiple animal species	Not carcinogenic
EPOXY RESIN	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification

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SILANE	Dermal	Mouse	Not carcinogenic
TREATED AMORPHOUS SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
NICKEL	Inhalation	similar	Carcinogenic
		compou	
		nds	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
ALUMINA TRIHYDRATE	Ingestion	Not toxic to development	Rat	NOAEL 768 mg/kg/day	during organogenesi s
EPOXY RESIN	Ingestion	Not toxic to female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
EPOXY RESIN	Ingestion	Not toxic to male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
EPOXY RESIN	Dermal	Not toxic to development	Rabbit	NOAEL 300 mg/kg/day	during organogenesi s
EPOXY RESIN	Ingestion	Not toxic to development	Rat	NOAEL 750 mg/kg/day	2 generation
LIMESTONE	Ingestion	Not toxic to development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
SILANE	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
SILANE	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
SILANE	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 3,000 mg/kg/day	during organogenesi s
TREATED AMORPHOUS SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
TREATED AMORPHOUS SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
TREATED AMORPHOUS SILICA	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
EPOXY RESIN	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
LIMESTONE	Inhalation	respiratory system	All data are negative	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
GLASS BUBBLES	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL not available	occupational exposure
GRAPHITE	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
EPOXY RESIN	Dermal	liver	Some positive data exist, but the data are not sufficient for	Rat	NOAEL 1,000	2 years

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			classification		mg/kg/day	
EPOXY RESIN	Dermal	nervous system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	13 weeks
EPOXY RESIN	Ingestion	auditory system heart endocrine system hematopoietic system liver eyes kidney and/or bladder	All data are negative	Rat	NOAEL 1,000 mg/kg/day	28 days
LIMESTONE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
SILANE	Ingestion	heart endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system nervous system kidney and/or bladder respiratory system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	28 days
TREATED AMORPHOUS SILICA	Inhalation	respiratory system silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
NICKEL	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.001 mg/l	13 weeks

Aspiration Hazard

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

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

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of 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.

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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.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

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

<u>Ingredient</u>	C.A.S. No	% by Wt
ZINC BORATE (ZINC COMPOUNDS)	1332-07-6	1 - 10
RED PHOSPHORUS (Phosphorus)	7723-14-0	<= 3
SULFURIC ACID (Sulfuric acid)	7664-93-9	0 - 1
NICKEL	7440-02-0	< 0.5

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

<u>Ingredient</u>	C.A.S. No.	Classification
NICKEL	7440-02-0	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause cancer.

15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

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

3MTM Scotch-WeldTM Structural Void Filling Compound EC-3550 and EC-3555 B/A FST, Part B 03/09/15

emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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