

A Component FX-752 (FX752-1QTA, FX-752-1A, FX752-5A) Two-Component, Epoxy Bonding Agent – Component A For industrial use only.
Simpson Strong-Tie Company Inc.
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1-800-535-5053 (US/Canada) / 1-352-323-3500 (International)

General Information

FX-752 is a two part system. The two parts of this product have been assessed according to GHS. This Safety Data Sheet covers hazards and responses for Component A. See Component B Safety Data Sheet for complete product information.

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Component A GHS Classification

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Physical Hazards:	Not Classified.	
Health Hazards:	Skin Corrosion/Irritation Serious Eye Damage/Irritation	Category 2 Category 2A
Environmental Hazards:	Sensitization, Skin Acute Aquatic Environmental Hazard Chronic Aquatic Environmental Hazard	Category 1 Category 2 Category 2
Signal Word:	WARNING!	
Hazard Statements:	Causes skin irritation. Causes serious eye ir aquatic life with long lasting effects.	ritation. May cause an allergic skin reaction. Toxic to
Precautionary Statements:		
Prevention:	and understood. Wear protective gloves/pro	ot handle until all safety precautions have been read tective clothing/eye protection/face protection. Avoid ter handling. Contaminated work clothing should not be to the environment.
Response:	If on skin: Wash with plenty of water. If skin Take off contaminated clothing and wash be	irritation or rash occurs: Get medical advice/attention. fore re-use. If in eyes: Rinse cautiously with water for present and easy to do. Continue rinsing. If eye
Storage:	Store locked up. Store in a well-ventilated pl	
Disposal:	Dispose of contents/container in accordance	
Hazards Not Otherwise Classified (HNOC)		

The above hazards are for the uncured A component of FX-752. Upon combination with the B component of FX-752 an innocuous solid coating is formed which does not present any immediate hazards. Upon grinding or cutting through the cured coating the following hazards may apply.



Health Hazard:	Carcinogenicity	Category 1A
	STOT, Repeated Exposure	Category 2 (Lung)
Hazard Statements:	May cause cancer. May cause dama repeated exposure (processing dust).	ge to organs (lung) through prolonged or
Precautionary Statements:	Do not breathe dust.	

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

Chemical Name	CAS Number	Weight %
Bisphenol A-Epichlorohydrin (Epoxy Resin)	25068-38-6	75-95
Alkyl (C12-C14) Glycidyl Ether	68609-97-2	5-25

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Routes of Exposure	
Eye Contact:	Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes
	open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or
	swelling persists, consult a physician.
Skin Contact:	Remove contaminated clothing and product, immediately wash affected area with soap and water.
	Do not apply greases or ointments. If rash or irritation persists consult a physician.
Ingestion:	Rinse mouth immediately. Do not induce vomiting. Consult a physician.
Inhalation:	Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to
	experience difficulty breathing, consult a physician.

Most Important Symptoms

Irritant effects. Sensitization. Symptoms include itching, burning, redness and tearing.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Additional Information:	Extinguish with foam, carbon dioxide, dry powder, or water fog. None known.
Hazards during Fire-Fighting:	Hazardous decomposition products may occur when materials polymerize at temperatures above 500°F (260°C). Do not allow run-off from fire-fighting to enter drains or water courses.
Fire-Fighting Procedures:	Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or open flames). Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Clean-Up Methods

Small spills: Large spills: Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly for proper disposal. Clean surface thoroughly to remove residual contamination. Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof containers. Seal tightly for proper disposal. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Handling

Mechanical ventilation or local exhaust ventilation is recommended. Keep away from open flames, hot surfaces and sources of ignition. Wear appropriate personal protective equipment. Pregnant women should not work with the product, if there is the least risk of exposure. When using, do not eat, drink or smoke. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.

Storage

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Store in a closed container away from incompatible materials (see section 10). Keep in original container. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Keep away from heat and sources of ignition. Store in a well-ventilated place. Protect against physical damage. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Personal Protective Equipment	
Protective Measure:	Wear appropriate personal protective equipment.
Eye Protection:	Wear chemical splash goggles or safety glasses with side shield.
Hand Protection:	Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.
Skin and Body Protection:	Wear long sleeve shirt/long pants and other clothing as required to minimize contact.
Respirator Protection:	A respirator is not required during normal use of this product in properly ventilated areas. Approved respirators should be worn when workplace conditions warrant respirator use.
General Hygiene:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

If exposure limits have not been established, maintain airborne levels to an acceptable level. When using indoors good general ventilation should be used. Provide eyewash station and emergency shower.

Exposure Limits

No exposure limits noted for components.

9. Physical and Chemical Properties

Physical State:	Liquid	Freezing/Melting Point:	N/E
Form:	Paste	Boiling Point:	>428°F (>220°C)
Color:	Clear Amber	Flash Point:	>250°F (>121°C)
Odor:	Sweet	Evaporation Rate:	N/A
Odor Threshold:	N/E	Specific Gravity:	1.13
pH:	N/E	VOC (A+B):	4 g/L
Flammability:	N/E	U/L Flammability:	N/Ě
Vapor Pressure:	Not Volatile	Vapor Density:	N/E
Solubility:	Insoluble	Kow:	N/E
Decomposition:	N/E	Viscosity:	N/E

10. Stability and Reactivity

Reactivity:This product is stable and non-reactive under normal conditions.Chemical Stability:Stable under normal storage conditions.Condition to Avoid:High heat and open flame.Substances to Avoid:Oxidizing agents, acids, organic bases, and amines.Hazardous Reactions:Hazardous polymerization will not occur.Decomposition Products:Carbon dioxide, carbon monoxide, oxides of nitrogen and other organic compounds.

11. Toxicological Information

Ingestion: Ingestion may cause irritation to the gastrointestinal tract.	
Inhalation:This material is a viscous liquid to semi-solid which does not easily form vapors.Skin contact:Causes skin irritation. May cause an allergic skin reaction.Eye contact:Causes serious eye irritation.	

Information on Toxicological Effects Acute toxicity:

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Test Result	

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Acute toxicity.				
Component		Species	Test Result	
Bisphenol-A-(Epichlorohy	drin) (CAS 25068-38-6)			
	Acute, Oral, LD50	Rat	>5000 mg/kg	
	Acute, Dermal, LC50	Rabbit	>2000 mg/kg	
Skin corrosion/irritation:	Causes skin irritation.			
Eye damage/eye irritation:	Causes serious eye irritation.			
Respiratory sensitization:	No data available.			
Skin sensitization:	May cause an allergic skin reaction			
Germ cell mutagenicity:	The available data does not indicate 0.1% is mutagenic or genotoxic.	e that any components	s of this product presen	t at greater thar
Carcinogenicity:	May cause cancer. The B compone carcinogens. These components ar the nature of this product inhalation only when grinding or cutting cured protective equipment as needed to IARC Monographs. Overall Evalu	e considered carcinog is highly unlikely. Exp product, ensure good control exposure to pr	ens only in their inhalal posure to respirable care work practice and use ocessing dust.	ole form. Due to cinogens is likel
	Quartz (14808-60-7)	1 Carcinogen		
	Titanium Dioxide (13463-67-7)	2B Possibly C	Carcinogenic to humans	
	Phenol (CAS 108-95-2) NTP Report on Carcinogens	3 Not classifia	able as to carcinogenicit	y in humans.
	Quartz (14808-60-7)	Known to be I	Human Carcinogen.	
Reproductive toxicity: Aspiration hazard: Specific target organ toxicity:	No data available. No data available.			
Single exposure Repeated exposure	No data available. No data available.			

Not expected to be acutely toxic.

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on data on the components and the ecotoxicology of similar products. The product is classified as toxic to aquatic life with long lasting effects. Avoid release to the environment.

Supporting Data

Component	Species	Test Result
Bisphenol-A-(Epichlorohydrin) (Epoxy Resin) (CAS 25068	3-38-6)	
Aquatic, Fish, LC50	Salmo gairdneri	1.5 mg/l, 96 hours
Aquatic, Crustacea, EC50	Daphnia magna	2.7 mg/l, 48 hours

Persistence and degradability:	
Bioaccumulative potential:	
Mobility in soil:	

This product is not expected to be readily biodegradable. No data available for this product. This product is insoluble in water and is non-volatile.

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13.	Disposal Considerations	
	Waste Disposal of Substance:	Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,

waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

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Container Disposal:

Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Transportation Information

FX-752 Component A is not regulated for ground transportation by the USDOT; check specific requirements for other regions and other shipping methods.

UN number:	UN3082	
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	
	(Bisphenol-A Epichlorohydrin Resin), 9, III, Marine Pollutant	
Transportation Class:	9	
Precautions:	Other Hazard	
Packing Group:		
Environment Hazard?	Yes	
Required Labels:	9	
ERG Code (IATA):	9L	
EmS (IMDG):	F-A, S-F	

Additional Information

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

This substance/mixture is not intended to be transported in bulk.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

Regulatory Information 15.

United States Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): CERCLA Hazardous Substance List (40 CFR 302.4):

Not listed. Not listed.

Hazard Categorie	S:			
Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance: SARA 311/312 Hazardous chemical: SARA 313 (TRI reporting):

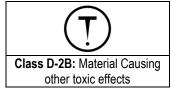
No Yes Not regulated.

This product does not contain known levels of any chemicals known to the State of California to cause cancer or reproductive harm as per California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986).

Canada

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

WHMIS Classification



FX-752 Component A

International

The product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

This product is not subject to or not applicable for any of the following International Regulations; Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.

International Inventories

Country or Region	Inventory	On Inventory? (Yes/No)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	YEs

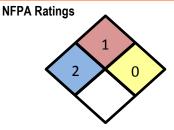
16. Other Information

Date Prepared or Revised: Supersedes:

January 2015 September 2013

Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Additional Classifications



HMIS Rating			
HEALTH	2	PHYSICAL	0
FLAMMABILITY	1	PPE	В

Disclaimer

This Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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A Component 752:	B Component 752:
XCOM3B	XCOM3B
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1.	Identification	
Produ	ct Identification	
	Product Identifier: Recommended Use: Use Restrictions:	B Component FX-752 (FX752-1QTB, FX752-1B, FX752-5B) Two-Component, Epoxy Bonding Agent – Component B For industrial use only.
Comp	any Identification	
	Company:	Simpson Strong-Tie Company Inc.
	Address:	5956 W. Las Positas Blvd. Pleasanton, CA_94588 USA
	Phone:	1-800-999-5099
	Website:	www.strongtie.com
	Emergency:	1-800-535-5053 (US/Canada) / 1-352-323-3500 (International)
	For most current SDS, please vis	sit our website at <u>www.strongtie.com/sds</u>
2.	Hazard Identification	

General Information

FX-752 is a two part system. The two parts of this product have been assessed according to GHS. This Safety Data Sheet covers hazards and responses for Component B. See Component A Safety Data Sheet for complete product information.

Component B GHS Classification

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Dhusiaal Hazarda	Not Classified.	
Physical Hazards: Health Hazards	Acute Toxicity, Oral	Category 4
Hould Hazardo	Acute Toxicity, Dermal	Category 4
	Acute Toxicity, Inhalation	Category 4
	Skin Corrosion/Irritation	Category 1
	Serious Eye Damage/Irritation	Category 1
	Sensitization, Skin	Category 1
	Germ Cell Mutagenicity	Category 2
	Reproductive Toxicity	Category 2
	STOT, Single Exposure	Category 3 (Respiratory Irritation)
	STOT, Repeated Exposure	Category 2 (Central Nervous System, Liver, Kidney)
Environmental Hazards:	Acute Environmental Hazard Chronic Environmental Hazard	Category 1 Category 1
Signal Word:	DANGER!	
Hazard Statements:	Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system, kidney, liver) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.	
Precautionary Statements:		
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wear protective gloves/clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoor or in a well-ventilated area. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Contaminated clothing should not be allowed out of the workplace. Avoid release to the environment.	
Response:	In case of fire: Use appropriate media to extinguish. If exposed or concerned: Get medical attention/advice. If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	

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Storage:

Disposal:

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Continue rinsing. Call a poison center/doctor if you feel unwell. If skin irritation or rash occurs, or eye irritation persists: Get medical advice/attention. Collect spillage. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national regulations.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured B component of FX-752. Upon combination with the A component of FX-752 an innocuous solid coating is formed which does not present any immediate hazards. Upon grinding or cutting through the cured coating the following hazards may apply.



Health Hazard:

Hazard Statements: Precautionary Statements: CarcinogenicityCategory 1ASTOT, Repeated ExposureCategory 2 (Lung)May cause cancer. May cause damage to organs (lung) through prolonged orrepeated exposure (processing dust).Do not breathe dust.

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

Composition – All concentrations are in percent by weight unless otherwise indicated.

Chemical Name	CAS Number	Weight %
Crystalline Silica, Quartz	14808-60-7	40-60
Tofa, reaction products with TEPA	68953-36-6	20-40
Precipitated Calcium Carbonate	471-34-1	1-10
Benzene-1,3-Dimethaneamine	1477-55-0	1-5
Tetraethylenepentamine	112-57-2	1-5
Diethylenetriamine	111-40-0	1-5
Bisphenol-A	80-05-7	1-5
Phenol	108-95-2	1-5
Benzyl Alcohol	100-51-6	1-5
Nonylphenol	25154-52-3	1-5
Polyoxypropylenediamine	9046-10-0	1-5
2,2',2"-nitriloethanol	102-71-6	1-5
4-tert-butylphenol	98-54-4	1-5
2-Piperazin-1-ylethylamine	140-31-8	1-5
Titanium Dioxide	13463-67-7	< 1

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

 Routes of Exposure

 Eye Contact:
 Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, consult a physician.

 Skin Contact:
 Remove contaminated clothing and product, immediately wash affected area with soap and water. If rash or irritation persists consult a physician.

 Ingestion:
 Rinse mouth immediately. Do NOT induce vomiting. Consult a physician.

 Inhalation:
 Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician.

Most Important Symptoms

May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dermatitis. Rash. Coughing, shortness of breath. Decreased motor functions.

6. Accidental Release Measures Personal Precautions

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Local authorities should be advised if significant spillages cannot be contained.

Clean-Up Methods	
Small spills:	Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly for
	proper disposal. Clean surface thoroughly to remove residual contamination.
Large spills:	Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. Use a
	non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof
	containers. Seal tightly for proper disposal. Following product recovery, flush area with water.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

7.	Handling and Storage
Handling	
	Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Avoid breathing fumes or vapors. When in use do not eat, drink, or smoke. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Observe good industrial hygiene practices.
Storage	

Storage

Store locked up. Store in a closed container away from incompatible materials. Keep in original container, keep container tightly closed. Store in a cool, dry place out of direct sunlight. Keep away from heat and sources of ignition. Protect from physical damage.

8.	Exposure Controls / Persona	al Protection
Perso	onal Protective Equipment	
	Protective Measure:	Wear appropriate personal protective equipment.
	Eye Protection:	Wear chemical splash goggles or safety glasses with side shield.
	Hand Protection:	Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.
	Skin and Body Protection:	Wear long sleeve shirts/long pants and other clothing as required to minimize contact.
	Respirator Protection:	The use of a respirator is not required during normal use of this product in properly ventilated areas. An approved respirator should be worn whenever workplace conditions warrant respirator use, or when grinding or cutting cured product.
	General Hygiene:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
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Engineering Controls

When using indoors good general ventilation should be used. Ventilation rates should be matched to conditions. Provide eyewash station.

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Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Calcium Carbonate5 mg/m³(Respirable)(CAS 427-34-1)15 mg/m³ (Total dust)		N/E	5 mg/m³(Respirable) 10 mg/m³ (Total dust)
Benzene-1,3-Dimethylamine* (CAS 108-95-2)	N/E	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)
Benzyl Alcohol (CAS 100-51-6)	N/E	10 ppm	44.2 mg/m ³ 10 ppm
Diethylenetriamine* N/E N/E		1 ppm	1 ppm
Phenol* (CAS 108-95-2)	5 ppm	5 ppm	5 ppm (TWA) 15.6 ppm (ceiling)
Tetraethylenepentamine* (CAS 112-57-2)	1 ppm	1ppm	1 ppm (aerosol)
Tofa, reaction products with TEPA (CAS 68953-36-6)	5 ppm	5 ppm	N/E
Quartz (CAS 14808-60-7)	$\frac{10}{\% SiO_2 + 2} \frac{mg}{m^3} / \frac{m^3}{m^3}$ (respirable)	0.025 mg/m³ (respirable)	0.05 mg/m ³ (respirable)
Titanium Dioxide (CAS 13463-67-7)	15 mg/m ³ (Total dust)	10 mg/m ³	N/E

*Skin Designation: Material can be absorbed through the skin.

9. Physical and Chemical Properties

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Physical State:	Liquid	Freezing/Melting Point:	N/E	
Form:	Liquid	Boiling Point:	N/E	
Color:	Dark Gray	Flash Point:	266°F (130°C)	
Odor:	Ammonia	Evaporation Rate:	N/E	
Odor Threshold:	N/E	Specific Gravity:	1.3	
pH:	N/E	Viscosity:	N/E	
Flammability:	N/E	U/L Flammability:	N/E	
Vapor Pressure:	N/E	Vapor Density:	N/E	
Solubility:	Slight	Kow:	N/E	
Decomposition:	N/Ē	VOC (A+B):	4 g/L	

10. Stability and Reactivity

Reactivity:	This product is stable and non-reactive under normal conditions.
Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	High heat and open flame.
Substances to Avoid:	Oxidizing agents and acids.
Hazardous Reactions:	Hazardous polymerization will not occur.
Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen and other organic compounds.

11. Toxicological Information	
Likely Routes of Exposure	
Ingestion:	Harmful if swallowed. Causes digestive tract burns.
Inhalation:	Harmful if inhaled. Irritating to the respiratory system.
Skin contact:	Harmful in contact with skin. Causes skin burns. May cause an allergic skin reaction.
Eye contact:	Causes serious eye damage.

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Acute toxicity:

Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Component	Species	Test Result			
2-Piperazin-1-ylethylamine (CAS 140-31-8)					
Acute, Dermal, LC50	Rabbit	880 mg/kg			
Benzyl Alcohol (100-51-6)					
Acute, Dermal, LD50	Rabbit	2000 mg/kg			
Acute, Inhalation, LC50	Rat	200-300 mg/L, 8Hours			
Acute, Oral, LD50	Rat	1230-3100 mg/kg			
Benzene-1,3-Dimethylamine (CAS 1477-55-0)					
Acute, Oral, LD50	Rat	2000 mg/kg			
Acute, Dermal, LC50	Rabbit	930 mg/kg			
Acute, Inhalation, LC50	Rat	700 ppm, 1 Hour			
Bisphenol-A (CAS 80-05-7)					
Acute, Oral, LD50	Rat	3300 mg/kg			
Diethylenetriamine (CAS 111-40-0)					
Acute, Oral, LD50	Rat	2800 mg/kg			
Acute, Dermal, LC50	Rabbit	550 mg/kg			
Phenol (CAS 108-95-2)					
Acute, Oral, LD50	Rat	317 mg/kg			
Acute, Dermal, LC50	Rabbit	850 mg/kg			
Tofa, reaction products with TEPA (CAS 68953-36-6)					
Acute, Oral, LD50	Rat	>2000 mg/kg			
Tetraethylenepentamine (CAS 112-57-2)					
Acute, Oral, LD50	Rat	2.1 mg/kg			
Acute, Dermal, LC50	Rabbit	0.66 mg/kg			

		0.00 mg/kg				
Skin corrosion/irritation:	Causes severe skin burns and eye	damage.				
Eye damage/eye irritation:	Causes serious eye damage.					
Respiratory sensitization:	No data available.					
Skin sensitization:	May cause skin sensitization by con	itact.				
Germ cell mutagenicity:	Components of this product are sus					
Carcinogenicity:		nts of this product contain components that are listed				
		e considered carcinogens only in their inhalable form. Due				
		is highly unlikely. Exposure to respirable carcinogens is lik				
		product, ensure good work practice and use of personal				
	, , , ,					
	protective equipment as needed to control exposure to processing dust.					
	IARC Monographs. Overall Evaluation of Carcinogenicity					
	Quartz (14808-60-7)	1 Carcinogenic to humans.				
	Titanium Dioxide (13463-67-7)	2B Possibly Carcinogenic to humans.				
	Phenol (CAS 108-95-2)	3 Not classifiable as to carcinogenicity in humans.				
	NTP Report on Carcinogens					
	Quartz (14808-60-7)	Known to be Human Carcinogen.				
Reproductive toxicity:		pected of damaging fertility or the unborn child.				
Aspiration hazard:	No data available.					
Specific target organ toxicity:						
Single exposure:	May cause respiratory irritation.					
Repeated exposure:	May cause damage to organs (cent	May cause damage to organs (central nervous system, liver, kidney) through prolonged or				
		nage to organs (lung) through prolonged or repeated expo				

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on data on the components and the ecotoxicology of similar products. The product is classified as very toxic to aquatic life with long lasting effects. Avoid release to the environment.

Supporting Data

Other Adv

Component		Species	Test Result
2-Piperazin-1-ylethylamine (CA	AS 140-31-8)	•	
	atic, Fish, LC50	Fathead Minnow	1950-2460 mg/l, 96 hours
Benzyl Alcohol (CAS 100-51-6))		
Aqu	atic, Fish, LC50	Bluegill	10 mg/l, 96 hours
Bisphenol-A (CAS 80-05-7)			
Aqu	atic, Fish, LC50	Fathead Minnow	3.6-5.4 mg/l, 96 hours
Aquatic, C	Crustacea, EC50	Daphnia magna	9.2-11.4 mg/l, 48 hours
Nonylphenol (CAS 84852-15-3			
Aqu	atic, Fish, LC50	Winter Flounder	0.017 mg/l, 96 hours
Aquatic, C	Crustacea, EC50	Clam	0.0379 mg/l, 48 hours
Phenol (CAS 108-95-2)			
	atic, Fish, LC50	Asiatic Knifefish	8-8.25 mg/l, 96 hours
	Crustacea, EC50	Daphnia obtusa	2.7 mg/l, 48 hours
Polyoxypropylenediamine (CAS	S 9046-10-0)		
	NOEC	Algae	0.32 mg/l, 72 Hours
Persistence and degradability:	No data available	е.	
Bioaccumulative potential:	No data available	e for the product.	
-	Partition Coeffi	cient n-octonal/water (log	Kow) Components
	Bisphenol-A (CA	S 80-05-7)	3.32
	Phenol (CAS 10	8-95-2)	1.46
	Tetraethylenepe	ntamine (CAS 112-57-2)	1.503
Mobility in soil:	No data available	е.	
dverse Effects			

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

Disposal Considerations Waste Disposal of Substance: Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,

waste Disposal of Substance:Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds,
waterways or ditches with chemical or used container. Dispose of contents/container in accordance
with local/regional/national regulations.Container Disposal:Empty containers or liners may retain some product residues; follow label warnings even after

container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transportation Information

-	
UN number:	UN2735
UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine), 8, II, Marine Pollutant
Transportation Class:	8 (9)
Precautions: Corrosive, Other Hazard	
Packing Group:	
Environment Hazard?:	Yes
Required Labels:	8
ERG Code (IATA):	8L
EmS (IMDG):	F-A, S-B

Additional Information

Special precautions for user:

Read safety instructions, SDS and emergency procedures before handling.

FX-752 Epoxy Bonding Agent

SAFETY DATA SHEET



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

15. Regulatory Information

United States

Federal Regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Not applicable.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):Not regulated.US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):Not listed.CERCLA Hazardous Substance List (40 CFR 302.4):Not listed.

Bisphenol-A (CAS 80-05-7)	LISTED
Phenol (CAS 108-95-2)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories:						
Immediate	Delayed	Fire	Pressure	Reactivity		
Yes	Yes	No	No	No		

SARA 302 Extremely hazardous substance:

Component	CAS	Reportable Quant.	Threshold Planning Quant. Lower Value	Threshold Planning Quant. Upper Value
Phenol	108-95-2	1000	500 lbs	10000 lbs

SARA 311/312 Hazardous chemical:

SARA 313 (TRI reporting):		
Component	CAS	% In Blend (approx.)
Bisphenol A	80-05-7	1-10
Phenol	108-95-2	1-10

US. California Proposition 65: WARNING: This product contains a chemical listed by the State of California as known to cause cancer, birth defects, or reproductive harm.

Yes

Component	Regulation	% In Blend (approx.)	Remark
Quartz (14808-60-7)	ACGIH	40-60	Carcinogenic
Titanium Dioxide (13463-67-7)	ACGIH	< 1	Carcinogenic

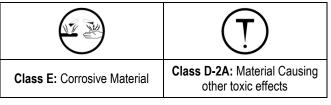
US State Right-To-Know Lists

Chemical	Massachusetts RTK	New Jersey Work and Community RTK Act	Pennsylvania Worker and Community RTK Law	Rhode Island RTK
2-Piperazin-1-ylethylamine (140-31-8)	Listed	Listed	Listed	
Benzyl Alcohol (100-51-6)	Listed		Listed	
Benzene-1,3-Dimethylamine (1477-55-0)	Listed	Listed	Listed	
Bisphenol A (80-05-7)	Listed	Listed	Listed	Listed
Diethylenetriamine (111-40-0)	Listed	Listed	Listed	
Phenol (108-95-2)	Listed	Listed	Listed	Listed
Tetraethylenepentamine (112-57-2)	Listed	Listed	Listed	

Canada

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

WHMIS Classification



International

The product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

This product is not subject to or not applicable for any of the following International Regulations; Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.

International Inventories

Country	Inventory	On Inventory?
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

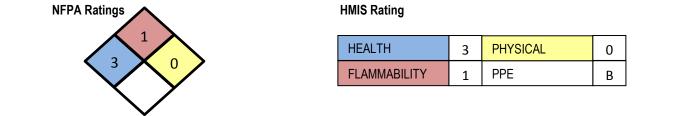
16. Other Information

 Date Prepared or Revised:
 January 2015

 Supersedes:
 September 2013

Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Additional Classifications



Disclaimer

This Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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FOR INTERNAL USE ONL	_Y
A Component 752:	B Component 752:
XCOM3B	XCOM3B
	XCORR