

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

SIMPSON
Strong-Tie

This Safety Data Sheet was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia and the New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06]. This product has been classified according to the hazard criteria of the Globally Harmonized System (GHS) and contains all of the information required by Safe Work Australia and Work Safe New Zealand.

1. Identification

Product Identification

Product Identifier: A Component FX-70®-6 1:1
Recommended Use: FX-70-6 1:1 is a three component 1:1 marine epoxy grout for underwater repair and the seismic retrofitting of pipelines.
Use Restrictions: For industrial use only. To ensure proper installation, use according to package directions. Complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Australia Pty Limited
Address: Unit 1/16 Kenoma Place
Arndell Park, NSW 2148
Australia
Phone: +612 9831 7700
Website: www.strongtie.com.au
Emergency: 13 11 26

Company: Simpson Strong-Tie New Zealand
Address: 52 A Arrenway Drive
Albany, Auckland 0632
New Zealand
Phone: +64 9 477 4440
Website: www.strongtie.co.nz
Emergency: 0800 POISON (0800 764 766)

2. Hazard Identification

General Information

FX-70®-6 1:1 Marine Epoxy Grout is a three part system (1A:1B epoxy mix) that can be used in wet or dry application for underwater repairs. The three parts of this product have been assessed individually according to the Globally Harmonized System (GHS). The mixed product can be assumed to carry the hazards of each component until the product has been fully cured. The final hardened material is gray and considered nonhazardous. Some hazards apply upon grinding or cutting through the final hardened product. This Safety Data Sheet covers hazards and responses for Component A. See Component B and Component C Safety Data Sheet for complete product information.

Component A GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards:	Not Classified.		
Health Hazards	Skin Corrosion/Irritation	Category 2	H315: Causes skin irritation
	Serious Eye Damage/Irritation	Category 2A	H319: Causes serious eye irritation
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
Environmental Hazards:	Chronic Environmental Hazard	Category 2	H411: Toxic to aquatic life with long lasting effects

Main Symptoms: Irritation of eyes and skin. May cause rash/allergic reaction to the skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision.

New Zealand Hazardous Substances and New Organisms Classification

6.3A – Skin Corrosion/Irritation; 6.4A – Serious Eye Damage/Eye Irritation; 6.5B – Skin Sensitization; 9.1B – Aquatic Toxicity (Chronic)

GHS Label Elements



Contains: Bisphenol-A Based Epoxy Resin, Alkyl (C12-C14) glycidyl ether
Signal Word: **WARNING!**

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Hazard Statements:	H315:	Causes skin irritation.
	H319:	Causes serious eye irritation.
	H317:	May cause an allergic skin reaction.
	H411:	Toxic to aquatic life with long lasting effects.
Precautionary Statements:		
Prevention:	P201:	Obtain special instructions before use.
	P202:	Do not handle until all safety precautions have been read and understood.
	P261:	Avoid breathing mist or vapor.
	P264:	Wash hands thoroughly after handling.
	P272:	Contaminated clothing should not be allowed out of the workplace.
	P273:	Avoid release to the environment.
	P280:	Wear protective gloves/clothing/eye protection/face protection.
	P302+P352:	IF ON SKIN: Wash with plenty of water.
Response:	P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364:	Take off contaminated clothing and wash before reuse.
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313:	If eye irritation persists: Get medical advice/attention.
Storage:	P403:	Store in a well-ventilated place.
	P405:	Store locked up.
	P501:	Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured A component of FX-70-6 1:1. Upon combination with the B and C components of FX-70-6 1:1, an innocuous solid, that does not present any immediate hazards, is formed. Upon grinding or cutting through the cured product, the following hazards may apply. If deemed necessary, the use of an approved respirator or dust mask can be used to control exposure to any dust that may occur.



Chronic Health

Health Hazard:	Carcinogenicity	Category 1A
	STOT, Repeated Exposure	Category 2 (Lung)
OSHA Hazard:	Combustible Dust	
Hazard Statements:	May cause cancer.	
	May cause damage to organs (lung) through prolonged or repeated exposure.	
	Can form explosive air-dust mixtures, avoid creating dust.	
Precautionary Statements:	Do not breathe dust.	
	Do not allow dust to build up on surfaces.	

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.

List of abbreviations and symbols:

Classification: Global Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

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

Chemical Name	Weight %	CAS Number	EC Number
Bisphenol-A Based Epoxy Resin	80-90	25068-38-6	500-003-5
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, Aquatic Chronic 2: H411			
Alkyl (C12-C14) glycidyl ether	1-20	68609-97-2	271-846-8
Classifications: Skin Irrit. 2: H315, Skin Sens. 1: H317			

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

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; wash affected area with soap and water. Do not apply greases or ointments. If redness, burning, or swelling persists, consult a physician .
Ingestion:	Rinse mouth. If you feel unwell, consult a physician .
Inhalation:	Remove patient to fresh air. Oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician .

Most Important Symptoms

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

5. Fire-Fighting Measures

Suitable Extinguishing Media:	Extinguish with foam, carbon dioxide, dry powder, or water fog.
Additional Information:	None known.
Hazards during Fire-Fighting:	Hazardous decomposition products may occur when materials polymerize at temperatures above 500°F (260°C).
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

Non-emergency personnel: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.

Clean-Up Methods

Small spills (uncured):	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 (uncured):	Stop the flow of material, if possible 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.
Cured Material:	Chip or grind off surface. If you are grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

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. When in use do not eat, drink, or smoke. Wash thoroughly after handling. Observe good industrial hygiene practices. When grinding or cutting cured product, avoid inhalation of processing dust. Use respiratory protection if airborne dust concentrations exceed exposure limits.

Storage

Store in a closed container away from incompatible materials (Section 10 of the SDS). 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.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

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 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. 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.

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 ingredients.

9. Physical and Chemical Properties

Physical State:	Liquid	Freezing/Melting Point:	N/E
Form:	Liquid	Boiling Point:	N/E
Color:	White	Flash Point:	302°F (150°C) Closed Cup
Odor:	Sweet	Evaporation Rate:	N/E
Odor Threshold:	N/E	Specific Gravity:	1.13
pH:	N/E	VOC(A+B+C):	26 g/L
Flammability:	N/E	U/L Flammability:	N/E
Vapor Pressure:	N/E	Vapor Density:	N/E
Solubility:	Slight	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

Likely Routes of Exposure

Ingestion:	Ingestion may cause irritation to the gastrointestinal tract.
Inhalation:	May cause mild respiratory irritation.
Skin contact:	Causes skin irritation. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation.
Symptoms:	Rash; redness, itching, burning, tearing, swelling, and blurred vision.

Information on Toxicological Effects

Acute Effects

Acute Toxicity: Not expected to be acutely toxic.

Component	Estimate
FX-70-6 1:1 Component A Toxicity Estimate	
Acute, Oral, LD50	>7000
Acute, Dermal, LD50	2070

Component	Species	Test Result
Bisphenol-A Based Epoxy Resin (CAS 25068-38-6)		
Acute, Oral, LD50	Rat	11400 mg/kg
Acute, Dermal, LD50	Rabbit	>2000 mg/kg

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Component	Species	Test Result
Alkyl (C12-C14) glycidyl ether (CAS 68609-97-2)		
Acute, Oral , LD50	Rat	>2000 mg/kg
Acute, Dermal , LD50	Rabbit	4050 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 skin sensitization by contact.
Aspiration hazard:	No data available.
Specific target organ toxicity Single Exposure:	No data available.

Chronic Effects

Germ cell mutagenicity:	The available data does not indicate that any component present at greater than 0.1% is genotoxic or mutagenic.
Carcinogenicity (Product Dust):	May cause cancer. FX-70-6 1:1 Component C contains components that are listed carcinogens. These components are considered carcinogens only in their inhalable form. Due to the nature of this product, inhalation is highly unlikely. Exposure to respirable carcinogens is likely only when grinding or cutting cured product. Ensure good work practice and use of personal protective equipment as needed to control exposure to processing dust.
Reproductive toxicity:	Not expected to damage fertility or the unborn child.
Specific target organ toxicity Repeated Exposure:	May cause damage to organs (lung) through prolonged or repeated exposure (inhalation of processing dust). FX-70-6 1:1 Component C contains components that may cause damage to the lungs. Due to the nature of this product, inhalation is highly unlikely. Exposure is likely only when grinding or cutting cured product. Ensure good work practice and use of personal protective equipment as needed to control exposure to processing dust.

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 Based Epoxy Resin (CAS 25068-38-6)		
Aquatic , Fish, LC50	Fish	1.3 mg/l, 96 Hours
Aquatic , Crustacea, EC50	Daphnia magna	2.1 mg/l, 48 Hours
Aquatic , Algae, EC50	Algae	>11 mg/l, 72 Hours
Alkyl (C12-C14) glycidyl ether (CAS 68609-97-2)		
Aquatic , Fish, LC50	Fish	>5000 mg/l, 96 Hours
Aquatic , Crustacea, EC50	Daphnia magna	6.07-7.2 mg/l, 48 Hours
Aquatic , Algae, EC50	Algae	844 mg/l, 72 Hours

Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available for the product.

Chemical	Log Kow	BCF	Bioaccumulation Potential
BPA Based Epoxy Resin (CAS 25068-38-6)	2.64-3.78	3-31	low
Alkyl (C12-C14) glycidyl ether (CAS 68609-97-2)	3.77	---	---

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Mobility in soil: No data available.

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.

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.

Disposal of Cured Product: Chip or grind off surface. Solid material does not need special disposal consideration.

14. Transportation Information

FX-70-6 Component A is not regulated for ground transportation by US DOT; 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

Precautions: Marine Pollutant
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.

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.

TSCA (Toxic Substances Control Act): All components are on the TSCA inventory.

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.

Australia

This SDS was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia. This product has been classified according to the hazard criteria of GHS and contains all of the information required by WHS.

Australian Inventory of Chemical Substances (AICS)	
Chemical	Registration Status
Bisphenol-A Based Epoxy Resin (CAS 25068-38-6)	Hazardous Substance IMAP – Tier II – Human Health
Alkyl (C12-C14) glycidyl ether (CAS 68609-97-2)	Hazardous Substance IMAP – Tier II - Human

New Zealand

New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06].

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Classified as hazardous according to the Hazardous Substances (minimum Degrees of Hazard) Regulations 2001.

New Zealand Inventory of Chemicals (NZIoC)	
Chemical	Registration Status
BPA Based Epoxy Resin (CAS 25068-38-6)	HSNO Approved (HSR003180)
Alkyl (C12-C14) glycidyl ether (CAS 68609-97-2)	HSNO Approved (HSR003837)

South Africa National Regulations

Simpson Strong-Tie South Africa is a subsidiary of Simpson Strong-Tie Australia and relies on the parent company to support many of the services it provides, one of these services is Safety Data Sheets (SDS). This SDS contains all of the relevant information required for the South African market, with the exception of the following information.

Local contact information for South African Poisons Centre – Phone: 0219 316129 or 021 6895227

Local Contact for Simpson Strong-Tie who has access to the SDS sheets - Houston Hank – Phone: 0873 540629

REGISTERED OFFICE: Unit 5, Fairway Business Park, Stibitz Street
Westlake Business Park, Westlake 7945
Cape Town, Western Province

POSTAL ADDRESS: PO Box 281 Bergvliet 7864

PHONE: 0873540629

DIRECTORS: Brian Magstadt & Herbert Kuhn

REGISTRATION #: 2012/052288/07

VAT #: 4190262362

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.

REACH Registered Substances			
Chemical	CAS Number	EC Number	Index Number
Bisphenol-A Based Epoxy Resin	25068-38-6	500-033-5	603-074-00-8
Alkyl (C12-C14) glycidyl ether	68609-97-2	271-846-8	603-103-00-4

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

Australia	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC)
Europe	All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.
Japan	One or more components in this product are not listed on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL)
New Zealand	All components of this product are included on the New Zealand Inventory.
Philippines	All components in this product are listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

Date Prepared or Revised: July 2016

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET



Supersedes:

November 2014

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

Abbreviations

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS No.:	Chemical Abstract Service Registry Number
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HSNO:	Hazardous Substances and New Organisms
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods code
NIOSH:	National Institute of Occupational Safety and Health (U.S.)
NTP:	National Toxicology Program (US)
OELS:	Occupational Exposure Limits
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
STOT:	Specific Target Organ Toxicity (GHS Classification)
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act (U.S.)
TWA:	Time Weighted Average (exposure for 8-hour workday)
VOC:	Volatile Organic Compounds
WES:	Workplace Exposure Standards

Full Text of H – Phrases Under Section 3

H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H319:	Causes serious eye irritation.
H411:	Toxic to aquatic life with long lasting effects.

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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FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

This Safety Data Sheet was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia and the New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06]. This product has been classified according to the hazard criteria of the Globally Harmonized System (GHS) and contains all of the information required by Safe Work Australia and Work Safe New Zealand.

1. Identification

Product Identification

Product Identifier: **B Component FX-70®-6 1:1**
Recommended Use: FX-70-6 1:1 is a three component 1:1 marine epoxy grout for underwater repair and the seismic retrofitting of pipelines.
Use Restrictions: For industrial use only. To ensure proper installation, use according to package directions. Complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Australia Pty Limited
Address: Unit 1/16 Kenoma Place
Arndell Park, NSW 2148
Australia
Phone: +612 9831 7700
Website: www.strongtie.com.au
Emergency: 13 11 26

Company: Simpson Strong-Tie New Zealand
Address: 52 A Arrenway Drive
Albany, Auckland 0632
New Zealand
Phone: +64 9 477 4440
Website: www.strongtie.co.nz
Emergency: **0800 POISON (0800 764 766)**

2. Hazard Identification

General Information

FX-70®-6 1:1 Marine Epoxy Grout is a three part system (1A:1B epoxy mix) that can be used in wet or dry application for underwater repairs. The three parts of this product have been assessed individually according to the Globally Harmonized System (GHS). The mixed product can be assumed to carry the hazards of each component until the product has been fully cured. The final hardened material is gray and considered nonhazardous. Some hazards apply upon grinding or cutting through the final hardened product. This Safety Data Sheet covers hazards and responses for Component B. See Component A and Component C Safety Data Sheet for complete product information.

Component B GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards:	Flammable Liquid	Category 4	H227: Combustible liquid
Health Hazard:	Acute Toxicity, Oral	Category 4	H302: Harmful if swallowed
	Acute Toxicity, Dermal	Category 4	H312: Harmful in contact with skin
	Acute Toxicity, Inhalation	Category 4	H332: Harmful if inhaled
	Skin Corrosion/Irritation	Category 2	H315: Causes skin irritation
	Serious Eye Damage/Irritation	Category 1	H318: Causes severe eye damage
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
	Carcinogenicity	Category 2	H351: Suspected of causing cancer
	Aspiration Hazard	Category 2	H305: May be harmful if swallowed and enters airways

Environmental Hazards: Not Classified.

Main Symptoms: Irritation to skin and damage to eyes. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision; discomfort in the chest, shortness of breath, or coughing. May cause severe irritation or burns to the gastrointestinal tract and respiratory system. May cause rash/allergic reaction to the skin. Long term exposure may cause chronic effects.

New Zealand Hazardous Substances and New Organisms Classification

3.1D – Flammable Liquids; 6.1D – Acute Toxicity, Oral; 6.1D – Acute Toxicity, Dermal; 6.1D – Acute Toxicity, Inhalation; 6.3A – Skin Corrosion/Irritation; 8.3A – Serious Eye Damage/Eye Irritation; 6.5B – Skin Sensitization; 6.7B – Carcinogenicity; 6.1E – Aspiration Hazard

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

GHS Label Elements



Contains: Benzyl Alcohol; Phenols; Solvent (petroleum), heavy aromatic

Signal Word:

DANGER!

Hazard Statements:

H227: Combustible Liquid.
H302: Harmful if swallowed.
H304: May be harmful if swallowed and enters airways.
P312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes severe eye damage.
H332: Harmful if inhaled.
H351: Suspected of causing cancer.

Precautionary Statements:

Prevention:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, sparks, open flame, hot surfaces. No smoking.
P260: Do not breathe mist or vapor.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink, or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated clothing must not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER/doctor.
P302+P352: IF ON SKIN: Wash with plenty of water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash before re-use.
P304+P340: IF INHALED: Remove victim to fresh air and keep in a rest position comfortable for breathing.
P312: Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314: Get immediate medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P308+P311: If exposed or concerned: Call a poison center/doctor.
P370: In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.

Storage:

P403+P333+P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405: Store locked up.

Disposal:

P501: Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured B component of FX-70-6 1:1. Upon combination with the A and C components of FX-70-6 1:1, an innocuous solid, that does not present any immediate hazards, is formed. Upon grinding or cutting through the cured product, the following hazards may apply. If deemed necessary, the use of an approved respirator or dust mask can be used to control exposure to any dust that may occur.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

SIMPSON
Strong-Tie



Chronic Health

Health Hazard:

Carcinogenicity
STOT, Repeated Exposure
Combustible Dust

Category 1A
Category 2 (Lung)

OSHA Hazard:

Hazard Statements:

May cause cancer.
May cause damage to organs (lung) through prolonged or repeated exposure.
Can form explosive air-dust mixtures, avoid creating dust.

Precautionary Statements:

Do not breathe dust.
Do not allow dust to build up on surfaces.

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.

List of abbreviations and symbols:

Classification: Global Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

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

Chemical Name	Weight %	CAS Number	EC Numbers
Benzyl Alcohol	10-30	100-51-6	202-869-9
Classifications: Acute Tox. 4: H302+H332			
Solvent, naphtha (petroleum), heavy aromatic	10-15	64742-94-5	265-198-5
Classifications: Asp. Tox. 1: H304			
Tris-2,4,6-(dimethylaminomethyl)phenol	5-10	90-72-2	202-013-9
Classifications: Acute Tox. 4: H302, Skin Irrit. 2: H315, Eye Irrit. 2: H319			
Tert-butylbenzene	< 10	98-06-6	202-632-4
Classifications: Flam. 3: H226, Acute Tox. 4: H332, Skin Irrit. 2: H315			
Triethylenetetramine	1-5	112-24-3	203-950-6
Classifications: Acute Tox. 4: H312, Skin Corr. 1B: H314, Skin Sens. 1: H317, Aquatic Chronic 3: H412			
Bis(dimethylaminomethyl)phenol	1-5	71074-89-0	275-162-0
Classifications: Acute Tox. 4: H302+H312, Skin Corr. 1B: H314, Eye Corr. 1: H318, STOT SE 3: H335			
1,4-diethylbenzene	1-5	105-05-5	203-265-2
Classifications: Flam. Liq. 3: H226, Skin Irrit. 2: H315, Eye Corr. 1: H318, Aquatic Chronic 2: H411, Asp. Tox. 1: H304			
1,2,3,4-tetramethylbenzene	1-5	488-23-3	207-673-1
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, STOT SE 3: H335			
Naphthalene	< 2	91-20-3	202-049-5
Classifications: Acute Tox. 4: H302, Carc. 2: H351, Aquatic 1: H400+H410			
Ethylbenzene	< 1	100-41-4	202-849-4
Classifications: Flam. 2: H225, Acute Tox. 4: H332, STOT RE 2: H373, Asp. Tox. 1: H304			

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. If rash or irritation persists **consult a physician.**

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

Ingestion Note: **This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when decided whether to induce vomiting. All treatments should be based on observed signs and symptoms of distress.**

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET



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

Irritation to skin and damage to eyes. Sensitization/rash. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause severe irritation or burns to the gastrointestinal tract and respiratory system. Respiratory irritation, difficulty breathing, coughing. Permanent eye damage including blindness could result.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder, or water fog.

Additional Information: None known.

Hazards during Fire-Fighting: Irritating and toxic fumes may be produced at high temperature. Hazardous gases/vapors produced are carbon monoxide, carbon dioxide, oxides of nitrogen, cyanide, aldehydes, and miscellaneous hydrocarbons. 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

Non-emergency personnel: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.

Clean-Up Methods

Small spills (uncured): 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 (uncured): Stop the flow of material, if possible 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.

Cured Material: Chip or grind off surface. If you are grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

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 required. Keep workplace clean. Wear appropriate personal protective equipment. Avoid breathing mist or vapor. When using, do not eat, drink or smoke. Avoid contact with eyes, skin, and clothing. Work practice should minimize contact. Wash thoroughly after handling. Observe good industrial hygiene practices.

Storage

Prevent exposure to moisture. Store locked up. Keep in cool, dry, well-ventilated area in closed containers. Protect containers from physical damage. Store away from incompatible materials(see section 10 of the SDS). Keep in original container. Keep away from heat and sources of ignition. 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.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

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, when discomfort or irritation is experienced, 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.

Engineering Controls

When using indoor good general ventilation should be used, use local exhaust or general dilution ventilation to control exposure. Provide eyewash station and emergency shower.

Exposure Limits

Component	Australia National Workplace OELs	New Zealand Workplace Exposure Limits (WES)	United States ACGIH (TLV)
Ethylbenzene (CAS 100-41-4)	100 ppm (TWA) 125 ppm (STEL)	100 ppm (TWA) 125 ppm (STEL)	20 ppm (TWA)
Naphthalene (CAS 91-20-3)	10 ppm (TWA) 15 ppm (STEL)	10 ppm (TWA) 15 ppm (STEL)	10 ppm
Triethylenetetramine (CAS 112-24-3)	N/E	N/E	1 ppm

9. Physical and Chemical Properties

Physical State:	Liquid	Freezing/Melting Point:	N/E
Form:	Liquid	Boiling Point:	N/E
Color:	Black	Flash Point:	151°F (66°C) Closed Cup
Odor:	Ammonia	Evaporation Rate:	N/E
Odor Threshold:	N/E	Specific Gravity:	0.99
pH:	N/E	VOC (A+B+C):	26 g/L
U. Flammability:	N/E	L Flammability:	N/E
Vapor Pressure:	N/E	Vapor Density:	N/E
Solubility:	Slight	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 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. Aspiration hazard: do not induce vomiting if product is swallowed.
Inhalation:	May cause mild respiratory irritation.
Skin contact:	Causes skin irritation. May cause an allergic skin reaction.
Eye contact:	Causes severe eye damage.
Symptoms:	Rash; redness, itching, burning, tearing, swelling, and blurred vision. Ingestion may cause severe irritation or burns to the gastrointestinal tract and respiratory system.

Information on Toxicological Effects

Acute Effects

Acute Toxicity: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled.

Component	Estimate
FX-70-6 1:1 Component B Toxicity Estimate	
Acute, Oral, LD50	731
Acute, Dermal, LD50	1896
Acute, Inhalation, LC50	11.19

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Component	Species	Test Result
Benzyl Alcohol (CAS 100-51-6)	Acute, Oral , LD50	Rat 1230-3100 mg/kg
	Acute, Dermal , LD50	Rabbit 2000 mg/kg
Triethylenetetramine (CAS 112-24-3)	Acute, Oral , LD50	Rat 2500 mg/kg
	Acute, Dermal , LD50	Rabbit 1465 mg/kg
Tris-2,4,6-(dimethylaminomethyl)phenol (CAS 90-72-2)	Acute, Oral , LD50	Rat 1200 mg/kg
	Acute, Dermal , LD50	Rat 1280 mg/kg
1,2,3,4-tetramethylbenzene (CAS 488-23-3)	Acute, Oral , LD50	Rat 6408 mg/kg
Ethylbenzene (CAS 100-41-4)	Acute, Oral , LD50	Rat 3500 mg/kg
	Acute, Dermal , LD50	Rabbit >5000 mg/kg
Naphthalene (CAS 91-20-3)	Acute, Oral , LD50	Rat 490 mg/kg
	Acute, Dermal , LD50	Rabbit 20000 mg/kg

Skin corrosion/irritation: Causes skin irritation.
Eye damage/eye irritation: Causes severe eye damage.
Respiratory sensitization: No data available.
Skin sensitization: May cause an allergic skin reaction.
Aspiration hazard: May be harmful if swallowed and enters the lungs.
Specific target organ toxicity
Single exposure: No data available.

Chronic Effects

Germ cell mutagenicity: The available data does not indicate that any component present at greater than 0.1% is mutagenic or genotoxic.
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: No data available.
Specific target organ toxicity
Repeated exposure: May cause damage to organs (lung) through prolonged or repeated exposure (inhalation of processing dust). FX-70-6 1:1 Component C contains components that may cause damage to the lungs. Due to the nature of this product, inhalation is highly unlikely. Exposure is likely only when grinding or cutting cured product. Ensure good work practice and use of personal protective equipment as needed to control exposure to processing dust.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Ethylbenzene (CAS 100-41-4)	< 1	2B	---	A3	CA65
Naphthalene (CAS 91-20-3)	< 2	2B	ANTICIPATED	---	CA65

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 - Not classifiable as to carcinogenicity 4 - Probably not carcinogenic
NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
ACGIH - A1 - Confirmed carcinogen A2 - Suspected carcinogen A3 - Animal carcinogen A4 - Not classified A5 - Not suspected
CA65 - California Prop 65

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 and harmful to aquatic life with long lasting effects. Avoid release to the environment.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Supporting Data

Component	Species	Test Result
Benzyl Alcohol (CAS 100-51-6)		
Aquatic, Fish, LC50	Bluegill	10 mg/l, 96 hours
Aquatic, Algae, EC50	Algae	700 mg/l, 72 hours
Ethylbenzene (CAS 100-41-4)		
Aquatic, Fish, LC50	Fathead minnow	7.5-11 mg/l, 96 hours
Aquatic, Crustacea, EC50	Daphnia magna	1.4-4.4 mg/l, 48 hours
Aquatic, Algae, EC50	Algae	4.9 mg/l, 72 hours
Tert-butylbenzene (CAS 98-06-6)		
Aquatic, Fish, LC50	Golden orfe	65 mg/l, 48 hours
Aquatic, Crustacea, EC50	Daphnia magna	41 mg/l, 24 hours
Naphthalene (CAS 91-20-3)		
Aquatic, Fish, LC50	Fathead minnow	2.82 mg/l, 96 hours
Aquatic, Crustacea, EC50	Daphnia magna	1.1-3.4 mg/l, 48 hours
Aquatic, Algae, EC50	Algae	0.4 mg/l, 72 hours

Persistence and degradability: No data available.
Bioaccumulative potential: No data available.

Chemical	Log Kow	BCF	Bioaccumulation Potential
Solvent Naphtha (petroleum), (CAS 64742-94-5)	3.2-4.5	---	---
Tert-butylbenzene (CAS 98-06-6)	4.11	---	---
Naphthalene (CAS 91-20-3)	3.4	---	---

Mobility in soil: No data available.

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 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.

Disposal of Cured Product: Chip or grind off surface. Solid material does not need special disposal consideration.

14. Transportation Information

UN number: UN2735
UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Triethylenetetramine), 8, III, Marine Pollutant
Precautions: Corrosive, Marine Pollutant
Required Labels: 8 (9)
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.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

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.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

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.

TSCA (Toxic Substances Control Act): All components are on the TSCA inventory.

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):

Naphthalene (91-20-3)	LISTED
Xylenes (1330-20-7)	LISTED
Ethylbenzene (100-41-4)	LISTED
Methanol (67-56-1)	LISTED

Australia

This SDS was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia. This product has been classified according to the hazard criteria of GHS and contains all of the information required by WHS.

Australian Inventory of Chemical Substances (AICS)	
Chemical	Registration Status
Benzyl Alcohol (CAS 100-51-6)	Hazardous Substance IMAP – Tier II – Human Health
Solvent naphtha (pet.), heavy aromatic (CAS 64742-94-5)	Hazardous Substance IMAP – Tier II – Human Health
Tris-2,4,6-(dimethylaminomethyl)phenol (CAS 90-72-2)	Hazardous Substance
Tert-butylbenzene (CAS 98-06-6)	Hazardous Substance
Triethylenetetramine (CAS 112-24-3)	Hazardous Substance IMAP – Tier II – Human Health
Bis(dimethylaminomethyl)phenol (CAS 71074-89-0)	---
1,4-diethylbenzene (CAS 105-05-5)	---
1,2,3,4-tetramethylbenzene (CAS 488-23-3)	---
Naphthalene (CAS 91-20-3)	Hazardous Substance IMAP – Tier II – Human Health
Ethylbenzene (CAS 100-41-4)	Hazardous Substance IMAP – Tier II – Human Health

New Zealand

New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06].
Classified as hazardous according to the Hazardous Substances (minimum Degrees of Hazard) Regulations 2001.

New Zealand Inventory of Chemicals (NZIoC)	
Chemical	Registration Status
Benzyl Alcohol (CAS 100-51-6)	HSNO Approved (HSR001039)
Solvent naphtha (pet.), heavy aromatic (CAS 64742-94-5)	May be used as a single component under an appropriate group standard.
Tris-2,4,6-(dimethylaminomethyl)phenol (CAS 90-72-2)	HSNO Approved (HSR003549)

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Chemical	Registration Status
Tert-butylbenzene (CAS 98-06-6)	HSNO Approved (HSR003757)
Triethylenetetramine (CAS 112-24-3)	HSNO Approved (HSR003570)
Bis(dimethylaminomethyl)phenol (CAS 71074-89-0)	May be used as a single component under an appropriate group standard.
1,4-diethylbenzene (CAS 105-05-5)	HSNO Approved (HSR006008)
1,2,3,4-tetramethylbenzene (CAS 488-23-3)	May be used as a single component under an appropriate group standard.
Naphthalene (CAS 91-20-3)	HSNO Approved (HSR001287)
Ethylbenzene (CAS 100-41-4)	HSNO Approved (HSR001151)

South Africa National Regulations

Simpson Strong-Tie South Africa is a subsidiary of Simpson Strong-Tie Australia and relies on the parent company to support many of the services it provides, one of these services is Safety Data Sheets (SDS). This SDS contains all of the relevant information required for the South African market, with the exception of the following information.

Local contact information for South African Poisons Centre – Phone: 0219 316129 or 021 6895227

Local Contact for Simpson Strong-Tie who has access to the SDS sheets - Houston Hank – Phone: 0873 540629

REGISTERED OFFICE: Unit 5, Fairway Business Park, Stibitz Street
Westlake Business Park, Westlake 7945
Cape Town, Western Province
PO Box 281 Bergvliet 7864

POSTAL ADDRESS:

PHONE: 0873540629

DIRECTORS: Brian Magstadt & Herbert Kuhn

REGISTRATION #: 2012/052288/07

VAT #: 4190262362

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.

REACH Registered Substances			
Chemical	CAS Number	EC Number	Index Number
Benzyl Alcohol	100-51-6	202-859-9	603-057-00-5
Triethylenetetramine	112-24-3	203-950-6	612-059-00-5
Ethylbenzene	100-41-4	202-849-4	601-023-00-4
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	265-198-5	649-424-00-3
Naphthalene	91-20-3	202-049-5	601-052-00-2
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	202-013-9	603-069-00-0

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

Australia	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Europe	All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.
Japan	All components in this product are listed on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL).
New Zealand	One or more components of this product are not included on the New Zealand Inventory.
Philippines	All components in this product are listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

Date Prepared or Revised: July 2016
Supersedes: November 2014

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

Abbreviations

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS No.:	Chemical Abstract Service Registry Number
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HSNO:	Hazardous Substances and New Organisms
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods code
NIOSH:	National Institute of Occupational Safety and Health (U.S.)
NTP:	National Toxicology Program (US)
OELS:	Occupational Exposure Limits
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
STOT:	Specific Target Organ Toxicity (GHS Classification)
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act (U.S.)
TWA:	Time Weighted Average (exposure for 8-hour workday)
VOC:	Volatile Organic Compounds
WES:	Workplace Exposure Standards

Full Text of H – Phrases Under Section 3

H225:	Highly flammable liquid and vapor.
H226:	Flammable liquid and vapor.
H302:	Harmful if swallowed.
H304:	May be fatal if swallowed and enters airways.
H312:	Harmful in contact with skin.
H314:	Causes severe skin burns and eye damage.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H318:	Causes severe eye damage.
H319:	Causes serious eye irritation.
H332:	Harmful if inhaled.
H335:	May cause respiratory irritation.
H351:	Suspected of causing cancer.
H373:	May cause damage to organs through prolonged or repeated exposure.
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET



H412: Harmful to aquatic life with long lasting effects.

Disclaimer

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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FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

This Safety Data Sheet was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia and the New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06]. This product has been classified according to the hazard criteria of the Globally Harmonized System (GHS) and contains all of the information required by Safe Work Australia and Work Safe New Zealand.

1. Identification

Product Identification

Product Identifier: C Component FX-70®-6 1:1
Recommended Use: FX-70-6 1:1 is a three component 1:1 marine epoxy grout for underwater repair and the seismic retrofitting of pipelines.
Use Restrictions: For industrial use only. To ensure proper installation, use according to package directions. Complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Australia Pty Limited
Address: Unit 1/16 Kenoma Place
Arndell Park, NSW 2148
Australia
Phone: +612 9831 7700
Website: www.strongtie.com.au
Emergency: 13 11 26

Company: Simpson Strong-Tie New Zealand
Address: 52 A Arrenway Drive
Albany, Auckland 0632
New Zealand
Phone: +64 9 477 4440
Website: www.strongtie.co.nz
Emergency: 0800 POISON (0800 764 766)

2. Hazard Identification

General Information

FX-70®-6 1:1 Marine Epoxy Grout is a three part system (1A:1B epoxy mix) that can be used in wet or dry application for underwater repairs. The three parts of this product have been assessed individually according to the Globally Harmonized System (GHS). The mixed product can be assumed to carry the hazards of each component until the product has been fully cured. The final hardened material is gray and considered nonhazardous. Some hazards apply upon grinding or cutting through the final hardened product. This Safety Data Sheet covers hazards and responses for Component A. See Component B and Component C Safety Data Sheet for complete product information.

Component C GHS Classification

Classification according to HazCom2012 (GHS)

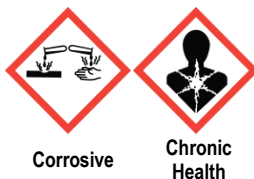
Physical Hazards:	Not Classified.		
Health Hazards:	Serious Eye Damage/Irritation	Category 1	H318: Causes severe eye damage
	Carcinogenicity	Category 1A	H350: May cause cancer
	STOT, Repeated Exposure	Category 2	H373: May cause damage to organs (lungs)
Environmental Hazards:	Not Classified.		

Main Symptoms: Damage to the eyes. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. Long term exposure may cause chronic effects.

New Zealand Hazardous Substances and New Organisms Classification

8.3A – Serious Eye Damage/Eye Irritation; 6.7A – Carcinogenicity; 6.9B – STOT, Repeated Exposure

GHS Label Elements



Contains: Crystalline Silica (Quartz), Fly Ash, Barium Sulfate
Signal Word: DANGER!
Hazard Statements: H318: Causes severe eye damage.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Precautionary Statements:	H350:	May cause cancer.
	H373:	Causes damage to organs (lungs) through prolonged or repeated exposure.
Prevention:	P201:	Obtain special instructions before use.
	P202:	Do not handle until all safety precautions have been read and understood.
	P260:	Do not breathe dust.
	P264:	Wash hands thoroughly after handling.
	P271:	Use only outdoors or in a well-ventilated area.
	P280:	Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P304+P340:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310:	Immediately call a POISON CENTER/doctor.
	P337+P313:	If eye irritation persists: Get medical advice/attention.
	P308+P313:	If exposed or concerned: Get medical advice/attention.
	P312:	Call a POISON CENTER/doctor if you feel unwell.
Storage:	P403+P233+P235:	Store in a well-ventilated place. Keep container tightly closed. Keep cool.
	P405:	Store locked up.
Disposal:	P501:	Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured C component of FX-70-6 1:1. Upon combination with the A and B component, an innocuous solid is formed, which does not present any immediate hazards. Upon grinding or cutting through the cured product, the following hazards may apply. Ensure that good work practices, and the necessary precautionary measures, are taken to maintain safe use of the product.

OSHA Hazard:	Combustible Dust
Hazard Statement:	Can form explosive air-dust mixtures, avoid creating dust.
Precautionary Statement:	Do not allow dust to build up on surfaces.

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.

List of abbreviations and symbols:

Classification: Global Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

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

Chemical Name	Weight %	CAS Number	EC Number
Crystalline Silica, Quartz Classifications: Carc. 1A: H350, STOT RE 2: H373	50-70	14808-60-7	238-878-4
Fly Ash Classifications: Eye Corr. 1: H318, Carc. 1A: H350	20-30	68131-74-8	268-627-4
Barium Sulfate Classifications: None.	5-15	7727-43-7	231-784-4

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:	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 you experience redness, burning, blurred vision, or
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FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

SIMPSON
Strong-Tie

Skin Contact:	swelling consult a physician immediately. Remove contaminated clothing and product, wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation occurs consult a physician.
Ingestion:	Rinse mouth. Do not induce vomiting. Consult a physician.
Inhalation:	Remove patient to fresh air. Oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician.

Most Important Symptoms

Damage to the eyes. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. Permanent eye damage including blindness could result.

5. Fire-Fighting Measures

Suitable Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Additional Information:	Can form explosive air-dust mixtures, avoid creating dust.
Hazards during Fire-Fighting:	During a fire, gases hazardous to health may be formed.
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

Non-emergency personnel: Avoid generating dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust. Ensure adequate ventilation. If the concentration of dust exceeds the permissible exposure limit wear a respirator. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Wear appropriate personal protective equipment.

Clean-Up Methods

Small spills (not set):	Avoid dry sweeping. Do not use compressed air to clean spilled silica sand. Use damp towel to wipe up small spills. Dispose of in closed containers.
Large spills (not set):	Avoid dry sweeping. Do not use compressed air to clean spilled silica sand. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system. Dispose of in closed containers.
Set Material:	Chip or grind off. If you are grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

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

Avoid generating dust. Mechanical ventilation or local exhaust ventilation is recommended. Use all available work practices to control dust exposure, such as water sprays. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Avoid contact with eyes, skin, and clothing. Do not breathe dust. Keep airborne dust concentrations below permissible exposure limits. Wear a respirator if silica dust concentrations exceed PEL. Do not permit dust to collect and build up on work surfaces, use good housekeeping. Observe good industrial hygiene practices.

Storage

Use dust collection to trap dust produced during loading and unloading. Store in a closed container away from incompatible materials (See Section 10 of the SDS). Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Protect against physical damage.

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.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

- Skin and Body Protection:** Wear long sleeve shirt/long pants and other clothing as required to minimize contact. In case of dust production dust-proof clothing. Avoid contact with unhardened cement products, if contact occurs wash immediately with soap and water.
- Respirator Protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.
- 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

Mechanical ventilation or local exhaust ventilation is recommended. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

Component	Australia National Workplace OELs	New Zealand Workplace Exposure Limits (WES)	United States ACGIH (TLV)
Barium Sulfate (CAS 7727-43-7)	10 mg/m ³ (TWA)	10 mg/m ³ (TWA)	10 mg/m ³
Quartz (CAS 14808-60-7)	0.1 mg/m ³ (TWA)	0.1 mg/m ³ (TWA)	0.025 mg/m ³ (respirable)
Fly Ash (CAS 68131-74-8)	N/E	N/E	5 mg/m ³ (respirable)

9. Physical and Chemical Properties

Physical State:	Solid	Freezing/Melting Point:	N/E
Form:	Powder	Boiling Point:	N/E
Color:	Tan	Flash Point:	N/A
Odor:	Characteristic	Evaporation Rate:	N/A
Odor Threshold:	N/E	Specific Gravity:	2.6
pH:	N/E	VOC (A+B+C):	26 g/L
Flammability:	N/A	U/L Flammability:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Solubility:	Slight	Kow:	N/A
Decomposition:	N/E	Viscosity:	N/A

10. Stability and Reactivity

Reactivity:	Stable and non-reactive under normal conditions of use and storage.
Chemical Stability:	Stable and non-reactive under normal conditions of use and storage.
Condition to Avoid:	Conditions which generate dust.
Substances to Avoid:	Hydrofluoric acid, fluorine, chlorine trifluoride, or oxygen difluoride.
Hazardous Reactions:	The product is stable if stored and handled as prescribed/indicated.
Decomposition Products:	None.

11. Toxicological Information

Likely Routes of Exposure

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Irritation to nose and respiratory tract.
Skin contact:	Not expected to be a skin irritant.
Eye contact:	Causes serious eye damage. Particles can cause corneal abrasion.
Symptoms:	Redness, itching, burning, tearing, swelling, and blurred vision.

Information on Toxicological Effects

Acute Effects

Acute Toxicity:	Not expected to be acutely toxic. Occupational exposure to the substance or mixture may cause adverse effects.
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FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Component	Estimate
FX-70-6 1:1 Component C Toxicity Estimate	
Acute, Oral, LD50	4332

Component	Species	Test Result
Fly Ash (CAS 68131-74-8)		
Acute, Oral, LD50	Rat	> 2000 mg/kg
Quartz (CAS 14808-60-7)		
Acute, Oral, LD50	Rat	22500 mg/kg

Skin corrosion/irritation: Not expected to be a skin irritant.

Eye damage/eye irritation: Causes serious eye damage.

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: Not a skin sensitizer.

Aspiration hazard: No data available.

Specific target organ toxicity

Single Exposure: No data available.

Chronic Effects

Germ cell mutagenicity: No data available.

Carcinogenicity: May cause cancer. This product contains components that are listed carcinogens. These components are considered carcinogens only in their inhalable form. Exposure to respirable carcinogens is also likely when grinding or cutting cured product. Ensure good work practice and use of personal protective equipment as needed to control exposure to processing dust.

Reproductive toxicity: No data available.

Specific target organ toxicity

Repeated Exposure: Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Repeated or prolonged exposure to respirable silica dust will cause lung damage in the form of silicosis. Symptoms include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Quartz (CAS 14808-60-7)	50-70	1	KNOWN	A2	CA65
IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected CA65 – California Prop 65					

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. This material is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Supporting Data

Component	Species	Test Result
Barium Sulfate (CAS 7727-43-7)		
Aquatic, Crustacea, EC50	Tubificid worm	28.61-38.03 mg/l, 48 hours

Persistence and degradability: Not readily biodegradable.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Bioaccumulative potential: Not expected to bioaccumulate.
Mobility in soil: No data available.

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 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.

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.

Disposal of Cured Product: Chip or grind off surface. Solid material does not need special disposal consideration.

14. Transportation Information

DOT: FX-70-6 1:1 Component C is not regulated for transport.

IMDG/IATA: FX-70-6 1:1 Component C is not regulated for transport.

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: Not applicable.

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.

TSCA (Toxic Substances Control Act): All components are on the TSCA inventory.

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.

Australia

This SDS was prepared following the Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals from Work Safe Australia. This product has been classified according to the hazard criteria of GHS and contains all of the information required by WHS.

Australian Inventory of Chemical Substances (AICS)	
Chemical	Registration Status
Crystalline Silica, Quartz (CAS 14808-60-7)	Hazardous Substance IMAP – Tier II – Human Health
Fly Ash (CAS 68131-74-8)	Hazardous Substance
Barium Sulfate (CAS 7727-43-7)	Hazardous Substance IMAP – Tier I – Human Health

New Zealand

New Zealand Code of Practice for the Preparation of Safety Data Sheets (SDS) [No. HSNO CoP 8-1 09-06].
Classified as hazardous according to the Hazardous Substances (minimum Degrees of Hazard) Regulations 2001.

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

New Zealand Inventory of Chemicals (NZIoC)	
Chemical	Registration Status
Crystalline Silica, Quartz (CAS 14808-60-7)	HSNO Approved (HSR003125)
Fly Ash (CAS 68131-74-8)	May be used as a single component under an appropriate group standard.
Barium Sulfate (CAS 7727-43-7)	May be used as a single component under an appropriate group standard.

South Africa National Regulations

Simpson Strong-Tie South Africa is a subsidiary of Simpson Strong-Tie Australia and relies on the parent company to support many of the services it provides, one of these services is Safety Data Sheets (SDS). This SDS contains all of the relevant information required for the South African market, with the exception of the following information.

Local contact information for South African Poisons Centre – Phone: 0219 316129 or 021 6895227

Local Contact for Simpson Strong-Tie who has access to the SDS sheets - Houston Hank – Phone: 0873 540629

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POSTAL ADDRESS: PO Box 281 Bergvliet 7864

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DIRECTORS: Brian Magstadt & Herbert Kuhn

REGISTRATION #: 2012/052288/07

VAT #: 4190262362

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

Australia	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC)
Europe	All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.
Japan	All components in this product are listed on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL)
New Zealand	All components of this product are included on the New Zealand Inventory.
Philippines	All components in this product are listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

Date Prepared or Revised: July 2016
Supersedes: November 2014

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

FX-70®-6 1:1 Marine Epoxy Grout

SAFETY DATA SHEET

Abbreviations

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS No.:	Chemical Abstract Service Registry Number
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HSNO:	Hazardous Substances and New Organisms
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods code
NIOSH:	National Institute of Occupational Safety and Health (U.S.)
NTP:	National Toxicology Program (US)
OELS:	Occupational Exposure Limits
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
STOT:	Specific Target Organ Toxicity (GHS Classification)
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act (U.S.)
TWA:	Time Weighted Average (exposure for 8-hour workday)
VOC:	Volatile Organic Compounds
WES:	Workplace Exposure Standards

Full Text of H – Phrases Under Section 3

H318:	Causes severe eye damage.
H335:	May cause respiratory irritation.
H350:	May cause cancer.
H373:	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

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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