FX-70®-6MP *Multi-Purpose Marine Epoxy Grout*

SAFETY DATA SHEET

1. Identification

Product Identification

Product Identifier: **A Component FX-70®-6MP** (FX70-6MP-1PTSA, FX70-6MP-1A, FX70-6MP-5A)
Recommended Use: Three-Component Multi-Purpose Marine Epoxy Grout – A Component
Use Restrictions: For industrial use only.

Company 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 visit our website at **www.strongtie.com/sds**

2. Hazard Identification

General Information

FX-70®-6MP is a three part system. The three parts of this product have been assessed individually according to GHS. This Safety Data Sheet covers hazards and responses for Component A. See Component B and Component C Safety Data Sheet for complete product information. The final hardened material is considered nonhazardous; some hazards apply upon grinding or cutting through hardened product, see Hazardous Not Otherwise Classified if working with hardened product.

Component A GHS Classification

Physical Hazards:	Flammable Liquids	Category 3
Health Hazards	Skin Corrosion/Irritation	Category 2
	Serious Eye Damage/Irritation	Category 2A
	Sensitization, Skin	Category 1
	Germ Cell Mutagenicity	Category 2
	Carcinogenicity	Category 2
Environmental Hazards:	Acute Environmental Hazard	Category 2
	Chronic Environmental Hazard	Category 2

Signal Word: **WARNING!**

Hazard Statements: Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. 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 flames and hot surfaces – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion proof electrical/ventilation/lighting equipment. Use non-sparking tools. Take action to prevent static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing mist or vapor. Wash thoroughly after handling. Avoid release to the environment.

Response: In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction. If exposed or concerned: Call a poison center/doctor. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect Spillage.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

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

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 is formed which does not present any immediate hazards. Upon grinding or cutting through the cured product the following hazards may apply.

Health Hazard	Carcinogenicity	Category 1A
	STOT, Repeated Exposure	Category 2 (Lung)
Hazard Statements:	May cause cancer. May cause damage to organs (lung) through prolonged or repeated exposure.	
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.

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

Chemical Name	CAS Number	Weight %
Bisphenol A (Epoxy Resin)	25068-38-6	60-90
N- Butyl Glycidyl Ether	2426-08-6	1-15
o-Cresyl Glycidyl Ether	2210-79-9	1-15

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: 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

Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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: 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. 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. Observe good industrial hygiene practices.

Storage

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. 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: The use of a respirator is not required during normal use of this product. If grinding or cutting cured product the use of an approved respirator is recommended.
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

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
N-Butyl Glycidyl Ether (2426-08-6)	270 mg/m^3 50 ppm	3 ppm	N/E

Skin Designation: Butyl Glycidyl Ether (2426-08-6) can be absorbed through the skin

9. Physical and Chemical Properties

Physical State:	Liquid	**Freezing/Melting Point:**	N/A
Form:	Liquid	**Boiling Point:**	N/E
Color:	Clear Amber	**Flash Point:**	125 °F (52°C)
Odor:	Sweet	**Evaporation Rate:**	N/A
Odor Threshold:	N/A	**Specific Gravity:**	1.12
pH:	N/A	**VOC (A+B+C):**	2 g/L
Flammability:	N/A	**U/L Flammability:**	N/A
Vapor Pressure:	N/A	**Vapor Density:**	N/A
Solubility:	Soluble	**Kow:**	N/A
Decomposition:	N/A	**Viscosity:**	N/A

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 does 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: This material is a viscous liquid to semi-solid which does not easily form vapors. Inhalation of dust from grinding or cutting may irritate the respiratory tract.
Skin contact: Causes skin irritation. May cause an allergic skin reaction.
Eye contact: Causes serious eye irritation.

Information on Toxicological Effects

Acute toxicity: Occupational exposure to the substance or mixture may cause adverse effects.

Component	Species	Test Result
N-Butyl Glycidyl Ether (2426-08-6)		
Acute, *Dermal*, LC50	Rabbit	2520 µL/kg
Acute, *Inhalation,* LC50	Rat	1030 ppm, 8 hours
Acute, *Oral,* LD50	Rabbit	1660 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: Contains a component that is suspected of causing genetic defects.
Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity: No data available.
Aspiration hazard: No data available
Specific Target Organ Toxicity:
Single Exposure: No data available.
Repeated Exposure: No data available.

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) (25068-38-6)		
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: This product is not expected to be readily biodegradable.
Bioaccumulative potential: No data available for this product.
Partition coefficient n-octanol / water (log Kow) Components
N-Butyl Glycidyl ether (2426-08-6) 0.63
Mobility in soil: This product 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.

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

FX-70-6MP 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 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.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting) Not regulated.

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

	
Class D-2A: Material Causing other toxic effects	**Class B2:** Flammable

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)	No
Canada	Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

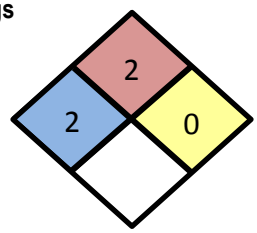
"Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
"No" indicates that one or more components of the product are not listed or exempt from listing.

16. Other Information

Date Prepared or Revised: November 2014
Supersedes: December 2013
Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Additional Classifications

NFPA Ratings



HMIS Rating

HEALTH	2	PHYSICAL	0
FLAMMABILITY	2	PPE	B

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)
CPR: Controlled Product Regulations (Canada)
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS: Hazardous Materials Identification System
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.)
NFPA: National Fire Protection Association (US)
NTP: National Toxicology Program (US)
PEL: Permissible Exposure Limit
SARA: Superfund Amendments and Reauthorization Act (U.S. EPA)
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
WHMIS: Canadian Workplace Hazardous Materials Information System

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.

Internal

FOR INTERNAL USE ONLY

A Component 70-6MP	B Component 70-6MP	C Component 70-6MP
XCOM2	XCOM3B	NSR
	XCORR	

1. Identification

Product Identification

Product Identifier: **B Component FX-70®-6MP** (FX70-6MP-1PTSB, FX70-6MP-1B, FX70-6MP-5B)
Recommended Use: Three-Component Multi-Purpose Marine Epoxy Grout – B Component
Use Restrictions: For industrial use only.

Company 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 visit our website at **www.strongtie.com/sds**

2. Hazard Identification

General Information

FX-70®-6MP is a three part system. The three parts of this product have been assessed individually according to GHS. This Safety Data Sheet covers hazards and responses for Component B. See Component A and Component C Safety Data Sheet for complete product information. The final hardened material is considered nonhazardous; some hazards apply upon grinding or cutting through hardened product, see Hazardous Not Otherwise Classified if working with hardened product.

Component B GHS Classification

Physical Hazards:	Not Classified.	
Health Hazards	Acute Toxicity, Oral	Category 4
	Acute Toxicity, Dermal	Category 4
	Skin Corrosion/Irritation	Category 1
	Serious Eye Damage/Irritation	Category 1
	Sensitization, Respiratory	Category 1
	Sensitization, Skin	Category 1
	Carcinogenicity	Category 2
Environmental Hazards:	Acute Environmental Hazard	Category 2
	Chronic Environmental Hazard	Category 2

Signal Word: **DANGER!**
Hazard Statements: Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties. Suspected of causing cancer. 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. Wear protective gloves/clothing/eye protection/face protection. Do not breathe mist or vapor. In case of inadequate ventilation wear respiratory protection. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Contaminated clothing must not be allowed out of the workplace. Avoid release to the environment.

Response: 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. 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.

Storage: Store locked up. Store in a well-ventilated place.

Disposal: 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-70-6 1:1. Upon combination with the A and C components of FX-70-6 1:1 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.

Health Hazard	Carcinogenicity	Category 1A
	STOT, Repeated Exposure	Category 2 (Lung)
Hazard Statements:	May cause cancer. May cause damage to organs (lung) through prolonged or repeated exposure (processing dust).	
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.

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

Chemical Name	CAS Number	Weight %
Isophorone Diamine	2855-13-2	20-40
Benzyl Alcohol	100-51-6	20-40
Alkyl Phenol Polyamine	N/A	20-40
Triethylenetetramine	112-24-3	1-10
Reaction Product: Bisphenol-A-(Epichlorohydrin)	25068-38-6	1-10
Diethylenetriamine	111-40-0	1-5
Ethylenediamine	107-15-3	1-5
Solvent, naphtha(petroleum), heavy aromatic	64742-94-5	1-5
Salicylic Acid	69-72-7	1-5
Naphthalene	91-20-3	< 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. 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. 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. Respiratory irritation, coughing, shortness of breath.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water fog, carbon dioxide, dry chemical powder, aqueous foam.

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

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.

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. Avoid discharge into drains, water courses or onto the ground.

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. Observe good industrial hygiene practices.

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 / 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: 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.
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	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Isophorone Diamine (CAS 2855-13-2)	10 ppm	10 ppm	N/E
Triethylenetetramine* (CAS 112-24-3)	N/E	N/E	1 ppm

Ethylenediamine (CAS 107-15-3)	10 ppm	10 ppm	N/E

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

9. Physical and Chemical Properties

Physical State:	Liquid	**Freezing/Melting Point:**	N/E
Form:	Liquid	**Boiling Point:**	N/E
Color:	Dark Amber	**Flash Point:**	212°F (100°C)
Odor:	Ammonia	**Evaporation Rate:**	N/E
Odor Threshold:	N/E	**Specific Gravity:**	1.01
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/E	**VOC (A+B+C):**	2 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: May cause respiratory irritation. May cause sensitization by inhalation.
Skin contact: Harmful in contact with skin. Causes skin burns. May cause an allergic skin reaction.
Eye contact: Causes serious eye damage.

Information on Toxicological Effects

Acute toxicity: Harmful if swallowed. Harmful in contact with skin.

Component	Species	Test Result
Benzyl Alcohol (CAS 100-51-6)		
Acute, *Oral,* LD50	Rat	1230-3100 mg/kg
Acute, *Dermal,* LC50	Rabbit	2000 mg/kg
Acute, *Inhalation,* LC50	Rat	200-300 mg/l, 8Hours
Isophorone Diamine (CAS 2855-13-2)		
Acute, *Oral,* LD50	Rat	1030 mg/kg
Reaction Product: Bisphenol-A-(Epichlorohydrin) (CAS 25068-38-6)		
Acute, *Oral,* LD50	Rat	>5000 mg/kg
Acute, *Dermal,* LC50	Rabbit	>2000 mg/kg
Triethylenetetramine (CAS 112-24-3)		
Acute, *Oral,* LD50	Rat	2500 mg/kg
Acute, *Dermal,* LC50	Rabbit	550 mg/kg

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Eye damage/eye irritation: Causes serious eye damage.
Respiratory sensitization: May case allergy or asthma symptoms or breathing difficulties.
Skin sensitization: May cause skin sensitization by contact.
Germ cell mutagenicity: The available data does not indicate that any components of this product present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity: A component of this product is suspected of causing cancer.
IARC Monographs. Overall Evaluation of Carcinogenicity
Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

Reproductive toxicity: Not expected to cause reproductive or developmental effects.
Aspiration hazard: No data available.
Specific target organ toxicity:
Single exposure: No data available.
Repeated exposure: Chronic inhalation may be harmful.

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.

Supporting Data

Component	Species	Test Result
Isophorone Diamine (CAS 2855-13-2)		
Aquatic, Crustacea, EC50	Daphnia magna	14.6-21.5 mg/l, 48 hours
Reaction Product: Bisphenol-A-(Epichlorohydrin) (CAS 25068-38-6)		
Aquatic, Fish, LC50	Salmo gairdneri	1.5 mg/l, 96 hours
Aquatic, Crustacea, EC50	Daphnia magna	2.7 mg/l, 48 hours
Benzyl Alcohol (CAS 100-51-6)		
Aquatic, Fish, LC50	Bluegill	10 mg/l, 96 hours

Persistence and degradability: No data available.
Bioaccumulative potential: No data available for the product.
Partition Coefficient n-octonal/water (log Kow) Components
Benzyl Alcohol (CAS 100-51-6) 1.1
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.

14. Transportation Information

UN number: UN2735
UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophorone Diamine), 8, II, 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.

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 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.

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: No
SARA 311/312 Hazardous chemical: Yes
SARA 313 (TRI reporting): Not regulated.

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.

Component (*Can be absorbed through the skin)	Regulation	% In Blend (approx.)	Remark
Naphthalene (91-20-3)	ACGIH	< 1	Carcinogenic

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

		
Class D-2B: Material Causing other toxic effects	**Class B2:** Flammable	**Class E:** Corrosive

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

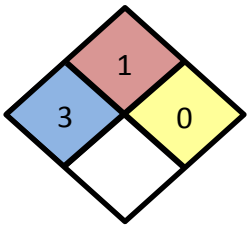
Country / Region	Inventory	On Inventory?
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
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: November 2014
Supersedes: December 2013
Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Additional Classifications

NFPA Ratings



HMIS Rating

HEALTH	3	PHYSICAL	0
FLAMMABILITY	1	PPE	B

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)
CPR:	Controlled Product Regulations (Canada)
EPA:	Environmental Protection Agency (U.S.)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HMIS:	Hazardous Materials Identification System
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.)
NFPA:	National Fire Protection Association (US)
NTP:	National Toxicology Program (US)
PEL:	Permissible Exposure Limit
SARA:	Superfund Amendments and Reauthorization Act (U.S. EPA)
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
WHMIS:	Canadian Workplace Hazardous Materials Information System

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.

Internal

FOR INTERNAL USE ONLY

A Component 70-6MP	B Component 70-6MP	C Component 70-6MP
XCOM2	XCOM3B	NSR
	XCORR	

1. Identification

Product Identification

Product Identifier: **C Component FX-70®-6MP** (FX70-6MP-1GSC, FX70-6MP-C, FX70-6MP-CP)
Recommended Use: Three-Component Multi-Purpose Marine Epoxy Grout – C Component
Use Restrictions: For industrial use only.

Company Identification

Company: Simpson Strong-Tie Company Inc.
Address: 5956 W. Las Positas Blvd.
Pleasanton, CA 94588
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 visit our website at **www.strongtie.com/sds**

2. Hazard Identification

General Information

FX-70®-6 1:1 Marine Epoxy Grout is a three part system. The three parts of this product have been assessed individually according to GHS. This Safety Data Sheet covers hazards and responses for Component C. See Component A and Component B Safety Data Sheet for complete product information.

Component C GHS Classification

The following hazards are for the powdered C component of FX-70-6 1:1. Upon combination with the A and B components of FX-70-6 1:1 an innocuous solid is formed which does not present any immediate hazards. Upon grinding or cutting through the cured product the same hazards apply to the processing dust.

Physical Hazards: Not Classified.
Health Hazards: Carcinogenicity — Category 1A
STOT, Single Exposure — Category 3 (Respiratory Irritation)
STOT, Repeated Exposure — Category 2 (Lung)
Environmental Hazards: Not Classified.
OSHA Hazards: Combustible dust

Signal Word: **DANGER!**
Hazard Statements: May cause cancer. May cause respiratory irritation. Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). May form combustible dust concentrations in air.

Precautionary Statements:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust. Use only outdoors or in a well-ventilated area. Do not allow dust to build up on surfaces.

Response: If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call poison center/doctor if you feel unwell.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

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

Hazards Not Otherwise Classified (HNOC)

Can form explosive air-dust mixtures, avoid creating 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	50-70
Fly Ash	68131-74-8	20-30
Barium Sulfate	7727-43-7	5-15

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 swelling **consult a physician immediately.**

Skin Contact: 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

Respiratory irritation.

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

Keep unnecessary personnel away. Avoid generating dust. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust. Ensure adequate ventilation. If the concentration of silica dust exceeds the PEL wear a respirator.

Clean-Up Methods

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.

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.

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.
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	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Barium Sulfate (CAS 7727-43-7)	5 mg/m³ (respirable) 15 mg/m³ (Total dust)	10 mg/m³	5 mg/m³ (respirable) 10 mg/m³ (Total dust)
Quartz (CAS 14808-60-7)	$\frac{10}{\%SiO_2 + 2}$ mg/m^3	0.025 mg/m³ (respirable)	0.05 mg/m³ (respirable)
Fly Ash (CAS 68131-74-8)	1 mg/m³ (respirable)	5 mg/m³ (respirable)	N/E

9. Physical and Chemical Properties

Physical State: Solid
Form: Powder
Color: Tan
Odor: Characteristic
Odor Threshold: N/E
pH: N/E
Flammability: N/A
Vapor Pressure: N/A
Solubility: Slight
Decomposition: N/E

Freezing/Melting Point: N/E
Boiling Point: N/E
Flash Point: N/A
Evaporation Rate: N/A
Specific Gravity: 2.6
VOC (A+B+C): 2 g/L
U/L Flammability: N/A
Vapor Density: N/A
Kow: N/A
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: Possible mild skin irritation.
Eye contact: Particles can cause corneal abrasion.

Information on Toxicological Effects

Acute toxicity: Occupational exposure to the substance or mixture may cause adverse effects.
Skin corrosion/irritation: Possible mild skin irritation.
Eye damage/eye irritation: Direct contact may cause temporary eye irritation.
Respiratory sensitization: Not a respiratory sensitizer.
Skin sensitization: Not a skin sensitizer.
Germ cell mutagenicity: No data available.
Carcinogenicity: May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity
Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.
ACGIH Carcinogens
Quartz (CAS 14808-60-7) A2 Suspected human carcinogen.

Reproductive toxicity: No data available.
Aspiration hazard: No data available.
Specific target organ toxicity:
Single Exposure: No data available.
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.

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

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.
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) 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.

14. Transportation Information

FX-70-6MP Component C is not regulated for transport by the United States Department of Transportation (DOT), the International Air Transportation Association (IATA), or the International Maritime Dangerous Goods Code (IMDG).

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 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) Barium Sulfate (CAS 7727-43-7)

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 No
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting) Not regulated.

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
Barium Sulfate (7727-43-7)	Listed	Listed	Listed	
Quartz (14808-60-7)	Listed	Listed	Listed	

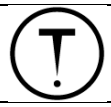
US. California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or reproductive harm.

Component	Regulation	% In Blend (approx.)	Remark
Quartz (14808-60-7)	ACGIH	50-70	Carcinogenic
Titanium Dioxide (13463-67-7)	ACGIH	Trace	Carcinogenic

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



Class D-2A: Material Causing other toxic effects

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	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)	Yes

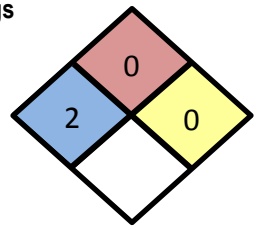
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

16. Other Information

Date Prepared or Revised: November 2014
Supersedes: December 2013
Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Additional Classifications

NFPA Ratings



HMIS Rating

HEALTH	2	PHYSICAL	0
FLAMMABILITY	0	PPE	B

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)
CPR: Controlled Product Regulations (Canada)
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS: Hazardous Materials Identification System
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.)
NFPA: National Fire Protection Association (US)
NTP: National Toxicology Program (US)
PEL: Permissible Exposure Limit
SARA: Superfund Amendments and Reauthorization Act (U.S. EPA)
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
WHMIS: Canadian Workplace Hazardous Materials Information System

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.

Internal

FOR INTERNAL USE ONLY

A Component 70-6MP	B Component 70-6MP	C Component 70-6MP
XCOM2	XCOM3B	NSR
	XCORR	