EP-XP *Component A*
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: **EP-XP Component A**
Recommended Use: EP-XP is a high-strength epoxy adhesive.
Use Restrictions: 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:	2A, 201-203 Power Street Glendenning, NSW 2761 Australia
Phone:	+612 9831 7700
Website:	www.strongtie.com.au
Emergency:	**13 11 26**

Company:	Simpson Strong-Tie New Zealand
Address:	52A 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

EP-XP is a low odor formula that can be used easily in both cold and warm weather conditions. It is a two component (3:1) system packaged as a single unit in a dual cartridge. The two parts of this product have been individually assessed according to the Globally Harmonized System (GHS). Exposure to individual components will only occur with improper use. Product mixing occurs via mixing nozzle while being dispensed. The mixed product can be assumed to carry the hazards of each component until the product has fully hardened. The final cured product will be uniformly gray or red in color and can be considered nonhazardous. Some hazards may apply upon grinding or cutting through hardened product. This Safety Data Sheet covers the hazards and responses for the safe use and handling of Component A. See the Component B 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 2	H319: Causes serious eye irritation
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
	Reprod. Toxicity	Category 1B	H360F: May damage fertility
Environmental Hazards:	Chronic Aquatic Hazard	Category 2	H411: Toxic to aquatic life with long lasting effects.

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

GHS Label Elements

Exclamation Point | **Environmental Hazard** | **Chronic Health**

Contains: 2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; 1,6-hexanediol diglycidyl ether

Signal Word: **DANGER!**

Hazard Statements:
H315: Causes skin irritation.
H319: Causes serious eye irritation.

	H317:	May cause an allergic skin reaction.
	H360F:	May damage fertility.
	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 dust, mist or vapor.
	P264:	Wash thoroughly after handling.
	P272:	Contaminated clothing should not be allowed out of the workplace.
	P273:	Avoid release to the environment.
	P280:	Wear protective gloves/protective clothing/eye protection/face protection.
Response:	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 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.
	P308+P313	IF exposed or concerned: Get medical advice / attention.
	P337+P313:	If eye irritation persists: Get medical advice/attention.
	P391:	Collect spillage.
Storage:	P403+P233:	Store in a well-ventilated place. Keep container tightly closed.
	P405:	Store locked up.
Disposal:	P501:	Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None.

Hazards Not Otherwise Classified (HNOC)

None known.

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: Globally 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
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane **Classifications:** Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	30-60	1675-54-3	216-823-5
1,6-Bis(2,3-epoxypropoxy)hexane **Classifications:** Repr. 1B, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H360F H315 H319 H317 H412	10-15	16096-31-4	240-260-4

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: 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 immediately.**

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 unless told to do so by a poison control center or doctor. If vomiting occurs keep head low so that stomach contents don't get into the lungs. Never give anything by mouth to an unconscious person. **Consult a physician immediately.**

Inhalation: If breathing is difficult remove patient to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, **consult a physician.**

Most Important Symptoms

Irritation of eyes and skin. Rash/dermatitis.

5. Fire-Fighting Measures

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

Additional Information: Do not use water jet as an extinguisher as this will spread the fire.

Hazards during Fire-Fighting: Irritating and toxic gases/fumes may be released during a fire. May re-ignite after fire is extinguished. Sealed containers may rupture when heated due to pressure increase.

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. If desired, approved solvents, such as ketones (MEK, acetone, etc.), lacquer thinner, or adhesive remover can be used. DO NOT USE SOLVENTS TO CLEAN ADHESIVE FROM SKIN. Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied.

Large spills (uncured): 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. Keep combustibles away from spilled material.

Cured Material: Chip or grind off surface. The product contains components that are considered carcinogenic in respirable form. 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. Take precautionary measures; do not allow dust to build up.

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. Do not contaminate water. Avoid discharge into drains, water courses or onto ground.

7. Handling and Storage

Handling

Mechanical ventilation or local exhaust ventilation is recommended. Keep away from open flame, hot surfaces, and sources of ignition. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Do not breathe dust. When using do not eat, drink, or smoke. Use only in well-ventilated places. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. To obtain optimal performance from Simpson Strong-Tie products and to achieve maximum allowable design load, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Keep in original container. Keep container tightly closed. Store in a dry, well-ventilated place out of direct sunlight, between 41-95°F (5-35°C). Keep away from heat and sources of ignition. Protect container from physical damage.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Protective Measure:	Wear appropriate personal protective equipment.
Eye Protection:	Chemical splash goggles or safety glasses with side shield are recommended.
Hand Protection:	Wear chemical-resistant gloves such as: Nitrile, neoprene, or butyl rubber.
Skin and Body Protection:	Wear long sleeve shirt/long pants and other clothing as required to minimize skin contact.
Respirator Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits, or if discomfort is experienced, an approved respirator should be worn. Proper installation of EP-XP requires drilling into concrete. Concrete dust can be hazardous to human health and precautions should be taken to avoid inhalation.
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, ventilation rates should be matched to conditions 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

None Specifically noted.

9. Physical and Chemical Properties

Physical State:	Pasty	**Boiling Point:**	No data
Color:	Light Beige	**Flash Point:**	N/A
Odor:	Characteristic	**Evaporation Rate:**	No data
pH:	No data	**Decomposition Temperature:**	No data
Flammability limit – lower %:	No data	**Specific Gravity:**	1.45
Flammability limit – upper %:	No data		
Vapor Pressure:	No data	**VOC (after cure):**	No data
Vapor Density:	No data	**Kow:**	No data
Solubility:	No data	**Viscosity:**	No data
Freezing/Melting Point:	No data	**Corrosiveness:**	No data

10. Stability and Reactivity

Reactivity:	No hazardous reaction when handled and stored according to provisions.
Chemical Stability:	Stable under storage at normal ambient temperatures.
Condition to Avoid:	Heat, sparks, flame, elevated temperatures. Avoid conditions over 113°F (45°C). Protect from sunlight.
Substances to Avoid:	Keep away from oxidizing and reducing agents. Hazardous decomposition will occur when in contact with acids, alkalies, heavy metal, reducing agents, and peroxide accelerators.
Hazardous Reactions:	The product is stable if stored and handled as prescribed/indicated. Hazardous polymerization can occur with excessive heat. Violent reaction with oxidizing agent, strong.
Decomposition Products:	Fire or high temperature can create: carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion:	Expected to be a low ingestion hazard.
Inhalation:	Prolonged exposure may cause temporary respiratory irritation.
Skin contact:	Skin irritation. May cause sensitization by skin contact.
Eye contact:	Causes serious eye irritation.
Symptoms:	Redness, itching, burning, tearing, swelling, and blurred vision; shortness of breath, discomfort in chest, or coughing. Rash/dermatitis.

Information on Toxicological Effects

Acute Effects

Toxicity: Not expected to be acutely toxic.

Component	Species	Estimate
EP-XP Component A Toxicity Estimate		
Acute, *Oral,* LD50	Rat	>5000 mg/kg
Acute, *Dermal*, LD50	Rabbit	>2000 mg/kg

Skin corrosion/irritation: Causes skin irritation.
Eye damage/eye irritation: Causes serious eye irritation.
Respiratory sensitization: Not a respiratory sensitizer.
Skin sensitization: May cause an allergic skin reaction.
Aspiration hazard: Not expected to be an aspiration hazard.
Specific target organ toxicity
Single exposure: Based on available data, the classification criteria are not met.

Chronic Effects
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
Specific target organ toxicity
Repeated exposure: Based on available data, the classification criteria are not met.

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 the components and the ecotoxicity of similar products. EP-XP Component A is classified as toxic to aquatic life with long lasting effects. Avoid release to the environment.

Supporting Data

Component	Estimate
2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	
Acute, *Fish,* LC50	2 mg/l, 96 hours
Acute, *Algae*, EC50	11 mg/l, 72 hours
Acute, *Crustacea*, EC50	1.8 mg/l, 48 hours
1,6-hexanediol diglycidyl ether	
Acute, *Fish,* LC50	30 mg/l, 96 hours
Acute, *Crustacea*, EC50	47 mg/l, 48 hours

Persistence and degradability: No data available.
Bioaccumulative potential: No data available for entire product.
Mobility in soil: No data available.

Further Information

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

13. Disposal Consideration

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

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 nation regulations.

UN number:	UN3077
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Transportation Class:	9
Packing Group:	III
Environment Hazard:	Yes
Required Labels:	9
EmS (IMDG):	F-A, S-F
Environmentally Hazardous:	Yes
Special Precautions for Users:	Read safety instructions, SDS and emergency procedures before handling.

Based on packaging size, Limited Quantity exemptions may apply. Please consult the 49 CFR HMR, IATA DGR, and IMDG Code to ensure that shipments comply with these 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
Component A	Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance: No
SARA 311/312 Hazardous chemical: Yes
SARA 313 (TRI reporting): No

California Proposition 65:
WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to www.P65Warnings.ca.gov.

Canada

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

New Zealand Regulations

HSNO Approval Number: HSR002544

International

EU regulatory information:
Restrictions on use (REACH, annex XVII):
Entry 75
Information according to 2012/18/EU
(SEVESO III):
E2 Hazardous to the Aquatic Environment

Additional information
VOC content: < 0,1 % (DIN EN ISO 11890-2)
To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information
Employment restrictions:
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D): 2 - obviously hazardous to water
Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.
The product is classified 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.**

16. Other Information

Date Prepared or Revised: May 2025
Supersedes: New
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)
HPR:	Hazardous Product Regulations (Canada)
DOT:	Department of Transportation (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)
OSHA:	Occupational Safety and Health Administration (U.S.)
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

Full Text of H – Phrases Under Section 3

H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H319:	Causes serious eye irritation.
H360F:	May damage fertility.
H411:	Toxic to aquatic life with long lasting effects.
H412:	Harmful 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.

Internal

FOR INTERNAL USE ONLY

EP-XP Component A:
XCOM3B