

ETI-SLV Epoxy-Tie Injection Super Low Viscosity

SAFETY DATA SHEET

1. Identification

Product Identification

Product Identifier:	ETI-SLV
Recommended Use:	Super-low Viscosity Injection Epoxy
Use Restrictions:	None Known.
UN Number:	2735
Proper Shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine), 8, II, Marine Pollutant
DG Class:	8 (9)
Packing Group:	II
Hazchem Code:	2X

Company Identification

Company: Simpson Strong-Tie Australia Pty Limited	Company: Simpson Strong-Tie New Zealand
Address: Unit 1/16 Kenoma Place Arndell Park, NSW 2148 Australia	Address: 28 Arrenway Drive Albany, Auckland 0632 New Zealand
Phone: +612 9831 7700	Phone: +64 9 477 4440
Website: www.strongtie.com.au	Website: www.strongtie.co.nz
Emergency: 13 11 26	Emergency: 0800 POISON (0800 764 766)

2. Hazard Identification

General Information

ETI-SLV Injection Epoxy is a two part system. The two parts of this product have been assessed according to GHS and are classified below. The final hardened material is considered nonhazardous.

Part A (amber side) GHS Classification

Classification

Physical Hazards:	Not Classified.	
Health Hazards:	Skin Corrosion/Irritation	Category 2
	Serious Eye Damage/Irritation	Category 2A
	Sensitization, Skin	Category 1
	Germ Cell Mutagenicity	Category 2
Environmental Hazards:	Acute Aquatic Environmental Hazard	Category 2
	Chronic Aquatic Environmental Hazard	Category 2

Label Elements



Health Hazard



Exclamation Mark



Environment

Signal Word:

WARNING!

Hazard Statements:

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects. 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/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:

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. Store between 45-90°F (7-32°C).

Disposal:

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

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Part B (black side) GHS Classification

Classification

Physical Hazards:	Not Classified.	
Health Hazards:	Acute Toxicity, Oral	Category 4
	Acute Toxicity, Inhalation	Category 4
	Skin Corrosion/Irritation	Category 1B
	Serious Eye Damage/Irritation	Category 1
	Sensitization, Skin	Category 1
	Reproductive Toxicity	Category 2
	STOT, Repeated Exposure	Category 2 (liver, muscle)
Environmental Hazards:	Acute Aquatic Environmental Hazard	Category 2
	Chronic Aquatic Environmental Hazard	Category 2

Label Elements



Corrosion



Health Hazard



Exclamation Mark



Environment

Signal Word:

DANGER!

Hazard Statements:

Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. May cause damage to organs (Liver, Muscle) through prolonged or repeated exposure. 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. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

Response:

If exposed or concerned: Get medical advice/attention. If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before re-use. Collect Spillage.

Storage:

Store locked up. Store in a well-ventilated place. Store between 45-90°F (7-32°C).

Disposal:

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

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.

Part A (amber side)

Chemical Name	CAS Number	Weight %
Bisphenol A/Epichlorohydrin	25068-38-6	50-70
1,3-Bis(2,3-epoxypropoxy) -2,2-dimethylpropane	17557-23-2	20-30
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	9003-36-5	10-20
o-Cresyl Glycidyl Ether	2210-79-9	1-5

Part B (black side)

Chemical Name	CAS Number	Weight %
4,4'-Methylenebis(cyclohexylamine)	1761-71-3	15-30
2-Sec-butylphenol	89-72-5	5-20
4-Tert-butylphenol	98-54-4	5-20
2-Methylpentane-1,5- diamine	15520-10-2	5-15
Diethylenetriamine	111-40-0	< 15
[(Dimethylamino)methyl]phenol	25338-55-0	5-10

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. You should call the Poisons Information Center if you feel you may have been harmed, burned, or irritated by this product. The number is 13 11 26 (24hr). Ready access to running water and accessible eyewash is required. 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 skin irritation persists, **consult a physician.**
- Ingestion:** Rinse mouth immediately. Give large amounts of milk or water, if person is conscious. Only induce vomiting at the instruction of medical personnel. **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. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Prolonged contact causes serious eye and tissue damage. May cause serious chemical burns to the skin. May cause burns in mucous membranes, throat, esophagus and stomach.

5. Fire-Fighting Measures

- Suitable Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder, or water fog.
- Unsuitable Extinguishing Media:** None known.
- Fire and Explosion Hazard:** None known.
- Hazards during Fire-Fighting:** Hazardous decomposition products may occur when materials polymerize at temperatures above 500 °F (260°C). Irritating and toxic gases/fumes may be released during a fire. 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.
- Hazchem Code:** 2Y (resin) / 2X (hardener)
- Combustion Products:** Carbon dioxide. Carbon monoxide. Aldehydes. Organic compounds. Acids.

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.

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Large spills:

Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. 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. When using, do not eat, drink or smoke. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Observe good industrial hygiene practices.

Storage

Store in a closed container away from incompatible materials. Keep in original container. Keep container tightly closed. Store in a dry place out of direct sunlight. Store between 45-90°F (7-32°C). Keep away from heat and sources of ignition. Store in a well-ventilated place. Store locked up. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure Limits

Component	Australia National Workplace OELs	New Zealand WES	US. ACGIH (TLV)	UK EH40 WELs
2-Sec-butylphenol * (CAS 89-72-5)	5 ppm	5 ppm	5 ppm	5 ppm
Diethylenetriamine * (CAS 111-40-0)	1 ppm	1 ppm	1 ppm	1 ppm

*Skin Designation: Material can be absorbed through the skin

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 general 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

When using indoors good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Ready access to running water is required. Provide eyewash station.

Additional Information

After Cure:

Product forms an innocuous solid. Processing after cure (grinding or cutting) may produce dust containing compounds that present an inhalation hazard.

9. Physical and Chemical Properties

Property

Physical State:

Part A

Liquid

Part B

Liquid

Color:

Amber

Black

Odor:

Mild

Ammonia

pH:

No data

10.7

Flammability limit – lower %:

No data

No data

Flammability limit – upper %:

No data

No data

Vapor Pressure:

No data

1 mm at 68°F (20°C) (DETA)

Vapor Density:

Heavier than air

Heavier than air

Solubility:

Minimal

Slightly soluble in water

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Freezing/Melting Point:	No data	No data
Boiling Point:	> 212 °F (>100 °C)	402 °F (206 °C)
Flash Point:	>250 °F (121.1 °C) Closed Cup	216 °F (102 °C) Closed Cup
Evaporation Rate:	No data	No data
Decomposition Temperature:	No data	No data
Specific Gravity:	1.1 at 72°F (22°C)	0.95
VOC (after cure):	23 g/L	23 g/L
Kow:	No data	No data
Viscosity:	~450 cP	~200 cP
Corrosiveness:	Non-corrosive	Corrosive

10. Stability and Reactivity**Part A (amber side)**

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:	Strong oxidizing agents. Acids. Amines. Bases, alkalis (organic).
Hazardous Reactions:	Hazardous polymerization does not occur.
Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

Part B (black side)

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:	Strong oxidizing agents. Strong acids. Acid anhydrides. Acid chlorides. Bases.
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 Summary**

Ingestion:	Harmful if swallowed. Causes digestive tract burns.
Inhalation:	Harmful if inhaled. Causes respiratory tract burns. If this material is heated or misted, coughing and mild, temporary irritation may occur.
Skin contact:	Causes skin irritation. Causes severe skin burns. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation. Causes eye burns.

Information on Toxicological Effects – Supporting Data

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

Component	Species	Test Result
2-Methylpentane-1,5-diamine (15520-10-2)		
Acute, Oral, LD50	Rabbit	1690 mg/kg
2-Sec-butylphenol (89-72-5)		
Acute, Inhalation, LC50	Rat	>290 ppm, 4 hours
Acute, Oral, LD50	Rat	320 mg/kg

Skin corrosion/irritation: Part B of this product is corrosive and may cause skin burns. Part A is considered a skin irritant.

Eye damage/eye irritation: Part B of this product is corrosive to the eyes. Part A is considered an eye irritant and may cause serious eye irritation.

Respiratory sensitization: No data available.

Skin sensitization: Ingredients in both components of this product are considered contact sensitizers.

Germ cell mutagenicity: Part A contains an ingredient which is suspected of causing genetic defects.

Carcinogenicity: None of the components of this product are considered carcinogens by IARC or ACGIH.

Reproductive toxicity: Part B contains an ingredient which is suspected of damaging fertility or the unborn child.

Aspiration hazard: No data available.

Specific target organ toxicity:

Single exposure No data available.

Repeated exposure May cause damage to organs (Liver, Muscle) through prolonged or repeated exposure.

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

Supporting Data

Component	Species	Test Result
Bisphenol-A/Epichlorohydrin (25068-38-6)		
Fish, LC50	Salmo Gairdneri	1.5 mg/l, 96 hours
Aquatic , Crustacea, EC50	Daphnia Magna	2.7 mg/l, 48 hours
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)		
Aquatic Acute , Algae, EC50	elenastrum capricornutum	1.8 mg/l, 72 hours
4-Tert-butylphenol (98-54-4)		
Aquatic , Crustacea, EC50	Daphnia Magna	3.4-4.5 mg/l, 48 hours
Aquatic , Fish, LC50	Fathead Minnow	4.71-5.62 mg/l, 96 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)

Butyl glycidyl ether (2426-08-6) 0.63

2-Sec-butylphenol (CAS 89-72-5) 3.27

Mobility in soil: This product is non-volatile.

Further Information

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 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/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: Grind or chip off surface. Solid material does not need special disposal considerations.

14. Transportation Information

Part A (amber side)

UN number: UN3082
UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-Epichlorohydrin), 9, III, Marine Pollutant
Transport hazard class(es): 9
Precautions: Marine Pollutant
Packing group: III
Required Labels: 9
Hazard ID (ADG): D3Z
ERG Code (IATA): 9L
EmS (IMDG): F-A, S-F
Hazchem Code: 2Y

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Part B (clear side)

UN number:	UN2735
UN proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (Nonylphenol), 8, III, Marine Pollutant
Transport hazard class(es):	8
Precautions:	Corrosive, Marine Pollutant
Packing group:	II
Required Labels:	8
Hazard ID:	2X
ERG Code (IATA):	8L
EmS (IMDG):	F-A, S-B
Hazchem Code:	2X

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

Australian National Regulations

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.

No poisons schedule number was allocated for any Australian Medicines & Poisons Appendix.

Listing in the Australian Inventory of Chemical Substances

Chemical	AICS Listing
Bisphenol-A-Epichlorohydrin (CAS 25068-38-6) <i>Listed as Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane</i>	Hazardous Substance High Volume Industrial Chemicals List (HVICL)
1,3-Bis(2,3-epoxypropoxy)-2,2-dimethylpropane (CAS 17557-23-2) <i>Listed as Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-</i>	Hazardous Substance
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (CAS 9003-36-5) <i>Listed as Formaldehyde, polymer with (chloromethyl) oxirane and phenol</i>	Listed
o-Cresyl Glycidyl Ether (CAS 2210-79-9) <i>Listed as Oxirane, [(2-methylphenoxy)methyl]-</i>	Hazardous Substance
4,4'-Methylenebis(cyclohexylamine) (CAS 1761-71-3) <i>Listed as Cyclohexanamine, 4,4'-methylenebis-</i>	Listed
2-Sec-butylphenol (CAS 89-72-5) <i>Listed as Phenol, 2-(1-methylpropyl)-</i>	Hazardous Substance
4-Tert-butylphenol (CAS 98-54-4) <i>Listed as Phenol, 4-(1,1-dimethylethyl)-</i>	International Programme on Chemical Safety - SIDS
2-Methylpentane-1,5- Diamine (CAS 15520-10-2)	Listed
Diethylenetriamine (CAS 111-40-0) <i>Listed as 1,2-Ethanediamine, N-(2-aminoethyl)-</i>	Hazardous Substance International Programme on Chemical Safety - SIDS
[(Dimethylamino)methyl]phenol (CAS 25338-55-0)	Listed

New Zealand National Regulations

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.

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HSNO: RESIN: 6.3A Skin Corrosion/Irritation; 6.4A Eye Corrosion/Irritation; 6.5B Skin Sensitization; 6.6B Germ Cell Mutagenicity; 9.1D Aquatic Toxicity (Acute); 9.1B Aquatic Toxicity (Chronic). HARDENER: 6.1D Acute Toxicity (Oral/Inhalation); 8.2B Skin Corrosion/Irritation; 8.3A Eye Corrosion/Irritation; 6.5B Skin Sensitization; 6.8B Reproductive Toxicity; 6.9B Specific Target Organ Systemic Toxicity; 9.1A Aquatic Toxicity (Acute); 9.1A Aquatic Toxicity (Chronic).

New Zealand Inventory of Chemicals (NZIoC)

Chemical	Registration Status
Bisphenol-A-Epichlorohydrin (CAS 25068-38-6) <i>Listed as Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane</i>	HSNO Approved (HSR003180)
1,3-Bis(2,3-epoxypropoxy)-2,2-dimethylpropane (CAS 17557-23-2) <i>Listed as Oxirane, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-</i>	HSNO Approved (HSR003994)
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (CAS 9003-36-5) <i>Listed as Formaldehyde, polymer with (chloromethyl) oxirane and phenol</i>	May be used as a single component chemical under an appropriate group standard.
o-Cresyl Glycidyl Ether (CAS 2210-79-9) <i>Listed as Oxirane, [(2-methylphenoxy)methyl]-</i>	HSNO Approved (HSR007257)
4,4'-Methylenebis(cyclohexylamine) (CAS 1761-71-3) <i>Listed as Cyclohexanamine, 4,4'-methylenebis-</i>	HSNO Approved (HSR003552)
2-Sec-butylphenol (CAS 89-72-5) <i>Listed as Phenol, 2-(1-methylpropyl)-</i>	May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right.
4-Tert-butylphenol (CAS 98-54-4) <i>Listed as Phenol, 4-(1,1-dimethylethyl)-</i>	HSNO Approved (HSR003913)
2-Methylpentane-1,5- Diamine (CAS 15520-10-2)	May be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right.
Diethylenetriamine (CAS 111-40-0) <i>Listed as 1,2-Ethanediamine, N-(2-aminoethyl)-</i>	HSNO Approved (HSR002966)
[[Dimethylamino)methyl]phenol (CAS 25338-55-0)	May be used as a single component chemical 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

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: Michael Herbert & Herbert Kuhn

REGISTRATION #: 2012/052288/07

VAT #: 4190262362

South African Safety, Health, and Environmental regulations specific for this product:

Hazardous Substances Act of 1973 (Act No. 15 of 1973): Not listed.

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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.

International Inventories

Country or Region	Inventory	On Inventory? (Yes/No)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)	Yes
United States	Toxic Substances Control Act (TSCA) Inventory	Yes

16. Other Information

Date Prepared or Revised: September 2014
Supersedes: May 2013
Prepared By: Simpson Strong-Tie Co. | 5956 W. Las Positas Blvd Pleasanton, CA 94588 USA

Abbreviations

ACGIH:	American Conference of Governmental Industrial Hygienists
AICS:	Australian Inventory of Chemical Substances
CAS No.:	Chemical Abstract Service Registry Number
CPR:	Controlled Product Regulations (Canada)
ES:	Exposure Standard
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HazChem Code:	Emergency action code of numbers and letters that provide information to emergency services.
HEPA:	High-Efficiency Particulate Air
HSNO:	Hazardous Substances and New Organisms Act (New Zealand)
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods code
Kow:	Octanol-Water Partition Coefficient
NIOSH:	National Institute of Occupational Safety and Health (U.S.)
NTP:	National Toxicology Program (US)
NZIoC:	New Zealand Inventory of Chemicals
OELs:	Occupational Exposure Limits
PEL:	Permissible Exposure Limit
SDS:	Safety Data Sheet
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)
UK:	United Kingdom
U.S.:	United States
VOC:	Volatile Organic Compounds
WELs:	Workplace Exposure Limits

Disclaimer

This Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. 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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