

1. Identification

Product Identification

Product Identifier: ETI-LV (ETILV22, ETILV56, ETILV)
Recommended Use: Low Viscosity Injection Epoxy
Use Restrictions: None Known.
UN Number: 2735
Proper Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Phenol, 2,4,6-trisdimethylaminomethyl), 8, III
DG Class: 8 (9)
Packing Group: III
Hazchem Code: 2X

Company Identification

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

Company: Simpson Strong-Tie New Zealand
Address: 28 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

ETI-LV 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.

Resin (clear 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
Environmental Hazards: Acute Aquatic Environmental Hazard Category 2
 Chronic Aquatic Environmental Hazard Category 2

Label Elements



Exclamation Mark



Environment

Signal Word: **WARNING!**
Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary Statements:
Prevention: 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 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 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.

ETI-LV Injection Epoxy
SAFETY DATA SHEET

Hardener (amber side) GHS Classification

Classification

Physical Hazards:	Flammable Liquids	Category 4
Health Hazards:	Acute Toxicity, Oral	Category 4
	Acute Toxicity, Dermal	Category 4
	Acute Toxicity, Inhalation	Category 4
	Skin Corrosion/Irritation	Category 1C
	Serious Eye Damage/Irritation	Category 1
	Sensitization, Skin	Category 1
Environmental Hazards:	Acute Aquatic Environmental Hazard	Category 3
	Chronic Aquatic Environmental Hazard	Category 3

Label Elements



Corrosion



Exclamation Mark

Signal Word:

DANGER!

Hazard Statements:

Combustible liquid. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe vapor. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid release to the environment.

Response:

In case of fire: Use appropriate media to extinguish. If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use. 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. 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.

Resin (clear side)

Chemical Name	CAS Number	Weight %
Bisphenol A/Epichlorohydrin	25068-38-6	50-80
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-polymer with 2-(chloromethyl)oxirane	30499-70-8	10-30
1,3-Bis(2,3-epoxypropoxy)-2,2-dimethylpropane	17557-23-2	5-15

Hardener (amber side)

Chemical Name	CAS Number	Weight %
Benzyl Alcohol	100-51-6	40-80
Triethylenetetramine	112-24-3	40-80
Formaldehyde, polymer with 1,3-dimethylbenzene	26139-75-3	5-15
Phenol, 2,4,6-trisdimethylaminomethyl	90-72-2	< 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. Cough. Labored breathing. Shortness of breath. Prolonged contact causes serious eye and tissue damage. Visual disturbances including blurred vision. 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. Water run-off can cause environmental damage. 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. Nitrogen Oxides (NOx). Ammonia.

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.

ETI-LV Injection Epoxy

SAFETY DATA SHEET

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. 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
Benzyl Alcohol (CAS 100-51-6)	N/E	N/E	44.2 mg/m ³ (NIOSH Pocket Guide)	N/E
Triethylenetetramine* (CAS 112-24-3)	N/E	N/E	6 mg/m ³ (NIOSH Pocket Guide)	N/E

*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 shirt/long pants and other clothing as required to minimize contact.
Respirator Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
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

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.

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	Resin	Hardener
Physical State:	Liquid	Liquid
Color:	Clear	Amber
Odor:	Sweet	Ammonia
pH:	5.6	10.9

ETI-LV Injection Epoxy
SAFETY DATA SHEET

Flammability limit – lower %:	No data	No data
Flammability limit – upper %:	No data	No data
Vapor Pressure:	Non-Volatile	No data
Vapor Density:	No data	No data
Solubility:	Insoluble in water	Slightly soluble in water
Freezing/Melting Point:	No data	No data
Boiling Point:	No data	No data
Flash Point:	256 °F (124.4 °C) Closed Cup	180 °F (85 °C) Closed Cup
Evaporation Rate:	No data	No data
Decomposition Temperature:	No data	No data
Specific Gravity:	1.21 at 72°F (22°C)	1.01 at 72°F (22°C)
VOC (after cure):	6 g/L	6 g/L
Kow:	No data	No data
Viscosity:	2000 cP	2000 cP

10. Stability and Reactivity

Resin (clear 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:	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.

Hardener (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. Strong acids.
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:	Harmful in contact with skin. Causes severe skin burns. Causes skin irritation. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation. Causes serious eye burns.

Information on Toxicological Effects – Supporting Data

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

Product	Species	Test Result
Benzyl alcohol (CAS 100-51-6)	Acute, Dermal , LC50	Rabbit 2000 mg/kg
	Acute, Oral , LD50	Rat 1230-3100 mg/kg
	Acute, Inhalation , LD50	Rat >4173 mg/m ³ , 4 hours

Skin corrosion/irritation:	The hardener component of this product is corrosive and may cause skin burns. The resin component is considered a skin irritant.
Eye damage/eye irritation:	The hardener component of this product is corrosive to the eyes. The resin component is considered an eye irritant and may cause serious eye irritation.
Respiratory sensitization:	May cause an allergic respiratory reaction becoming evident upon re-exposure to this material, and may cause breathing difficulties.
Skin sensitization:	Ingredients in both components of this product are considered contact sensitizers.
Germ cell mutagenicity:	The product contains a substance which has demonstrated animal effects of mutagenicity.

ETI-LV Injection Epoxy

SAFETY DATA SHEET

Carcinogenicity:	Contains traces of carbon black. Inhalation of carbon black dust may cause cancer, however due to the physical form of the product; inhalation of dust is not likely. Take care when cutting or grinding cured product. IARC Monographs. Overall Evaluation of Carcinogenicity Carbon Black (1333-86-4) 2B Possibly Carcinogenic to humans.
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 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. Resin is classified as toxic to aquatic life with long lasting effects. Hardener is classified as harmful 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
Benzyl alcohol (CAS 100-51-6) Aquatic Acute, Fish, LC50	Bluegill	10 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) Benzyl alcohol (CAS 100-51-6) 1.1
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

Resin (white 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

ETI-LV Injection Epoxy

SAFETY DATA SHEET

ERG Code (IATA): 9L
 EmS (IMDG): F-A, S-F
 Hazchem Code: 2Y

Hardener (amber side)

UN number: UN2735
 UN proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Phenol, 2,4,6-trisdimethylaminomethyl), 8, III
 Transport hazard class(es): 8
 Precautions: Corrosive
 Packing group: III
 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-Propanediol, 2-ethyl-2-(hydroxymethyl)-polymer with 2-(chloromethyl)oxirane (CAS 30499-70-8)	Listed
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
Benzyl Alcohol (CAS 100-51-6) <i>Listed as Benzenemethanol</i>	Hazardous Substance International Programme on Chemical Safety (IPCS) – SIDS High Volume Industrial Chemicals List (HVICL)
Phenol, 2,4,6-trisdimethylaminomethyl (CAS 90-72-2)	Hazardous Substance
Triethylenetetramine (CAS 112-24-3) <i>Listed as 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-</i>	Hazardous Substance International Programme on Chemical Safety (IPCS) – SIDS NICNAS PEC Candidate Chemical
Formaldehyde, polymer with 1,3-dimethylbenzene (CAS 26139-76-3)	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.

ETI-LV Injection Epoxy

SAFETY DATA SHEET



HSNO: RESIN: 6.3A Skin Corrosion/Irritation; 6.4A Eye Corrosion/Irritation; 6.5B Skin Sensitization; 9.1D Aquatic Toxicity (Acute); 9.1B Aquatic Toxicity (Chronic). HARDENER: 3.1D Flammable Liquid; 6.1D Acute Toxicity (Oral, Dermal, Inhalation); 8.2C Skin Corrosion/Irritation; 8.3A Eye Corrosion/Irritation; 6.5B Skin Sensitization; 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-Propanediol, 2-ethyl-2-(hydroxymethyl)-polymer with 2-(chloromethyl)oxirane (CAS 30499-70-8)	May be used as a single component chemical under an appropriate group standard.
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)
Benzyl Alcohol (CAS 100-51-6) <i>Listed as Benzenemethanol</i>	HSNO Approved (HSR001039)
Phenol, 2,4,6-trisdimethylaminomethyl (CAS 90-72-2)	HSNO Approved (HSR003549)
Triethylenetetramine (CAS 112-24-3) <i>Listed as 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-</i>	HSNO Approved (HSR003570)
Formaldehyde, polymer with 1,3-dimethylbenzene (CAS 26139-75-3)	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.

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.**

ETI-LV Injection Epoxy

SAFETY DATA SHEET



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: October 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
LPP:	Limité Permissible Ponderado (Chile)
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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