ETI-SLV Super-Low-Viscosity Injection Epoxy

SAFETY DATA SHEET

1. Identification

Product Identification

Product Identifier: ETI-SLV
Recommended Use: ETI-SLV is a super-low viscosity injection epoxy for concrete repair and maintenance.
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 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
ETI-SLV Injection Epoxy is a high-solids product for the maintenance and repair of cracked concrete. It can repair hairline cracks up to those ¼" in width. ETI-SLV is a two-component (2A:1B) product to be dispensed through a static mixing nozzle. The two parts of this product have been assessed individually according to the Globally Harmonized System (GHS). The mixed product can be assumed to carry the hazards of each component until the product has been fully cured. The final hardened material is black and can be considered nonhazardous. This Safety Data Sheet covers the hazards and responses for this product.

Component A GHS Classification

Classification according to HazCom2012 (GHS)

<table>
<thead>
<tr>
<th>Physical Hazards</th>
<th>Health Hazards</th>
<th>Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Classified.</td>
<td>Skin Corrosion/Irritation Category 2</td>
<td>Acute Aquatic Hazard Category 2</td>
</tr>
<tr>
<td></td>
<td>Serious Eye Damage/Irritation Category 2</td>
<td>Chronic Aquatic Hazard Category 2</td>
</tr>
<tr>
<td></td>
<td>Sensitization, Skin Category 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Germ Cell Mutagenicity Category 2</td>
<td></td>
</tr>
</tbody>
</table>

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. Long term exposure may cause chronic effects.

GHS Label Elements

Contains: Bisphenol-A Based Epoxy Resin, 1,2-Bis(2,3-epoxypropoxy)-2,2-dimethylpropane

Signal Word: WARNING!

Hazard Statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.
H401: Toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

ETI-SLV Super-Low-Viscosity Injection Epoxy
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P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing mist or vapor.
P264: Wash thoroughly after handling.
P272: Contaminated work 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 re-use.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P308+P313: If exposed or concerned: Get medical advice/attention.
P391: Collect Spillage.

Storage:
P403: Store in a well-ventilated place.
P405: Store locked up.
P411: Store between 45-90°F (7-32°C).

Disposal:
P405: Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Component B GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards: Not Classified.
Health Hazards: Acute Toxicity, Oral Category 4 H302: Harmful if swallowed
Acute Toxicity, Inhalation Category 4 H332: Harmful if inhaled
Skin Corrosion/Irritation Category 1 H314: Causes severe skin burns and eye damage
Serious Eye Damage/Irritation Category 1 H318: Causes serious eye damage
Sensitization, Skin Category 1 H317: May cause an allergic skin reaction
Reproductive Toxicity Category 2 H361: Suspected of damaging fertility or the unborn child
STOT, Repeated Exposure Category 2 H373: May cause damage to organs through prolonged and repeated exposure

Environmental Hazards: Acute Aquatic Hazard Category 2 H401: Toxic to aquatic life
Chronic Aquatic Hazard Category 2 H411: Toxic to aquatic life with long lasting effects

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

GHS Label Elements

Contains: 4,4′-Methylenebis(cyclohexylamine), 2-Sec-butylphenol, 4-Tert-butylphenol
Signal Word: DANGER!
Hazard Statements: H302: Harmful if swallowed.
H332: Harmful if inhaled.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
ETI-SLV Super-Low-Viscosity Injection Epoxy
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H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to organs (liver, muscle) through prolonged or repeated exposure.
H401: Toxic to aquatic life.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:
Prevention:
P102: Keep out of reach of children.
P103: Read label before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe mist or vapor.
P264: Wash thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work 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:
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTER/doctor.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P363: Wash contaminated clothing before re-use.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a poison center/doctor if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P308+P313: If exposed or concerned: Get medical advice/attention.
P391: Collect Spillage.

Storage:
P403: Store in a well-ventilated place.
P405: Store locked up.
P411: Store between 45-90°F (7-32°C).

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

Supplemental Label Information: None known.

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

Component A

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>CAS Number</th>
<th>EC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-A Based Epoxy Resin</td>
<td>50-70</td>
<td>25068-38-6</td>
<td>500-033-5</td>
</tr>
<tr>
<td>Classifications:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, Aquatic Chronic 2: H411</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Bis(2,3-epoxypropoxy)-2,2-dimethylpropane</td>
<td>20-30</td>
<td>17557-23-2</td>
<td>241-536-7</td>
</tr>
<tr>
<td>Classifications:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2: H315, Skin Sens. 1: H317</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bisphenol-F Epoxy Resin</td>
<td>10-20</td>
<td>9003-36-5</td>
<td>500-006-8</td>
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<td>Classifications:</td>
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<tr>
<td>Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, Aquatic Chronic 2: H411</td>
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<tr>
<td>o-Cresyl Glycidyl Ether</td>
<td>1-5</td>
<td>2210-79-9</td>
<td>218-645-3</td>
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<td>Skin Irrit. 2: H315, Skin Sens. 1: H317, GCM 2: H341, Aquatic Chronic 2: H411</td>
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</table>
Component B

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>CAS Number</th>
<th>EC Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Methylenebis(cyclohexylamine)</td>
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<td>1761-71-3</td>
<td>217-168-8</td>
</tr>
<tr>
<td>Classifications:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Sec-butylphenol</td>
<td>15-30</td>
<td>89-72-5</td>
<td>201-933-8</td>
</tr>
<tr>
<td>Classifications:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Tert-butylphenol</td>
<td>5-20</td>
<td>98-54-4</td>
<td>202-679-0</td>
</tr>
<tr>
<td>Classifications:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Methylpentane-1,5- diamine</td>
<td>5-15</td>
<td>15520-10-2</td>
<td>239-556-6</td>
</tr>
<tr>
<td>Classifications:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylenetriamine</td>
<td>&lt; 15</td>
<td>111-40-0</td>
<td>203-865-4</td>
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<tr>
<td>Classifications:</td>
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<td></td>
<td></td>
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<tr>
<td>2,4,6-tris-(dimethylaminomethyl)phenol</td>
<td>&lt; 15</td>
<td>90-72-2</td>
<td>202-013-9</td>
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<tr>
<td>Classifications:</td>
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<td></td>
<td></td>
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<tr>
<td>Acute Tox. 4: H302, Skin Irrit. 2: H315, Eye Irrit. 2: H319</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 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 immediately.

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

Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. Rash/dermatitis. May cause shortness of breath, discomfort in chest, or coughing. May cause damage to mucous membranes in nose, throat, lungs, bronchial system esophagus, and stomach.

5. Fire-Fighting Measures

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

Additional Information: None known.

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 runoff from fire-fighting to enter drains or water courses.

Fire-Fighting Procedures: Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

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

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.
### Clean-Up Methods

**Small spills (uncured):** Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly for proper disposal. Clean surface thoroughly to remove residual contamination. Take appropriate precautions when handling flammable solvents.

**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. 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 the ground.

### 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. Do not inhale mist or vapors. Use only in well-ventilated places. Wash thoroughly after handling. Wash contaminated clothing before reuse. Pregnant women should not work with the product, if there is the least risk of exposure. 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

### 8. Exposure Controls / Personal Protection

#### Personal Protective Equipment

**Protective Measure:** Wear appropriate personal protective equipment.

**Eye Protection:** Wear chemical splash goggles or safety glasses with side shield.

**Hand Protection:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

**Skin and Body Protection:** Wear long sleeve shirts/long pants and other clothing as required to minimize contact.

**Respirator Protection:** The use of a respirator is not required during 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
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

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA (PEL)</th>
<th>ACGIH (TLV)</th>
<th>NIOSH Pocket Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Sec-butylphenol* (CAS 89-72-5)</td>
<td>30 mg/m³ (TWA) 5 ppm (TWA)</td>
<td>30 mg/m³ (TWA) 5 ppm (TWA)</td>
<td>30 mg/m³ (TWA) 5 ppm (TWA)</td>
</tr>
<tr>
<td>Diethylenetriamine* (CAS 111-40-0)</td>
<td>N/E</td>
<td>1 ppm</td>
<td>1 ppm</td>
</tr>
</tbody>
</table>

*Skin Designation: Material can be absorbed through the skin.
9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Component A</th>
<th>Component B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Amber</td>
<td>Black</td>
</tr>
<tr>
<td>Odor:</td>
<td>Mild</td>
<td>Ammonia</td>
</tr>
<tr>
<td>pH:</td>
<td>No data</td>
<td>10.7</td>
</tr>
<tr>
<td>Flammability limit – lower %:</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Flammability limit – upper %:</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No data</td>
<td>1 mm at 68°F (20°C) (DETA)</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Heavier than air</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Minimal</td>
<td>Slightly soluble in water</td>
</tr>
<tr>
<td>Freezing/Melting Point:</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>&gt; 212 °F (&gt;100 °C)</td>
<td>402 °F (206 °C)</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt;250 °F (121.1 °C) Closed Cup</td>
<td>216 °F (102 °C) Closed Cup</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.1 at 72°F (22°C)</td>
<td>0.95</td>
</tr>
<tr>
<td>VOC (after cure):</td>
<td>23 g/L</td>
<td>23 g/L</td>
</tr>
<tr>
<td>Kow:</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>~450 cP</td>
<td>~200 cP</td>
</tr>
<tr>
<td>Corrosiveness:</td>
<td>Non-corrosive</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

Reactivity: The 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:
- Resin: Strong oxidizing agents, acids, amines, bases and alkalis (organic).
- Hardener: Strong oxidizing agents, strong acids, acid anhydrides, acid chlorides and 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

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 severe skin burns. May cause an allergic skin reaction.

Eye contact: Causes serious eye burns.

Symptoms: Burns, redness, itching, tearing, swelling, and blurred vision. Rash/dermatitis. May cause shortness of breath, discomfort in chest, or coughing. May cause damage to mucous membranes in nose, throat, lungs, bronchial system esophagus, and stomach.

Information on Toxicological Effects

Acute Effects

Toxicity: Harmful if swallowed. Harmful if inhaled.

<table>
<thead>
<tr>
<th>Component</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETI-SLV Component A Toxicity Estimate</td>
<td></td>
</tr>
<tr>
<td>Acute, Oral, LD50</td>
<td>8000 mg/kg</td>
</tr>
<tr>
<td>Acute, Dermal, LD50</td>
<td>2000 mg/kg</td>
</tr>
<tr>
<td>Acute, Inhalation, LD50</td>
<td>10 mg/L, 4 hours</td>
</tr>
<tr>
<td>ETI-SLV Component B Toxicity Estimate</td>
<td></td>
</tr>
<tr>
<td>Acute, Oral, LD50</td>
<td>1100 mg/kg</td>
</tr>
<tr>
<td>Acute, Dermal, LD50</td>
<td>3000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes severe skin burns.

Eye damage/eye irritation: Causes serious eye damage.

Respiratory sensitization: No data available.

Skin sensitization: May cause an allergic skin reaction.
Aspiration hazard: No data available.
Specific target organ toxicity
Single exposure: No data available.

Chronic Effects
Germ cell mutagenicity: ETI-SLV Component A contains a component that is suspected of causing genetic defects.
Carcinogenicity: None of the components of this product are considered carcinogens by IARC, NTP, ACGIH, or OSHA.
Reproductive toxicity: ETI-SLV Component B contains a component that is suspected of damaging fertility or the unborn child.
Specific target organ toxicity
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 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. Toxic to aquatic life with long lasting effects. Avoid release to the environment.

Supporting Data

<table>
<thead>
<tr>
<th>Component</th>
<th>Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETI-SLV Component A Toxicty Estimate</td>
<td></td>
</tr>
<tr>
<td>Aquatic, Fish, LC50</td>
<td>2.5 mg/l, 96 hours</td>
</tr>
<tr>
<td>Aquatic, Crustacea, EC50</td>
<td>2.5 mg/l, 48 hours</td>
</tr>
<tr>
<td>Aquatic, Algae, EC50</td>
<td>10 mg/l, 72 hours</td>
</tr>
<tr>
<td>ETI-SLV Component B Toxicty Estimate</td>
<td></td>
</tr>
<tr>
<td>Aquatic, Fish, LC50</td>
<td>30 mg/l, 96 hours</td>
</tr>
<tr>
<td>Aquatic, Crustacea, EC50</td>
<td>10 mg/l, 48 hours</td>
</tr>
<tr>
<td>Aquatic, Algae, EC50</td>
<td>100 mg/l, 72 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability: This product is not expected to be readily biodegradable.
Bioaccumulative potential: No data available for this product.
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 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

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.

<table>
<thead>
<tr>
<th>Component A</th>
<th>Component B</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number: UN3082</td>
<td>UN2735</td>
</tr>
<tr>
<td>UN proper shipping name:</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S.</td>
</tr>
<tr>
<td>Environmentally Hazardous</td>
<td>(Diethylenetriamine, Butylphenol),</td>
</tr>
<tr>
<td>Substance, Liquid, N.O.S. (Bisphenol-A-Epichlorohydrin), 9, III, Marine Pollutant</td>
<td>8, II, Marine Pollutant</td>
</tr>
<tr>
<td>Precautions: Marine Pollutant</td>
<td>Corrosive, Marine Pollutant</td>
</tr>
</tbody>
</table>
Component A is not regulated for ground shipping by the United States Department of Transportation (USDOT). 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.


**CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA):**

<table>
<thead>
<tr>
<th>Hazard Categories</th>
<th>Immediate</th>
<th>Delayed</th>
<th>Fire</th>
<th>Pressure</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component A</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Component B</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**SARA 302 Extremely hazardous substance:** No

**SARA 311/312 Hazardous chemical:** Yes

**SARA 313 (TRI reporting):** Not regulated.

**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.

**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**

<table>
<thead>
<tr>
<th>Country</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Australia</strong></td>
<td>All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).</td>
</tr>
<tr>
<td><strong>Canada</strong></td>
<td>All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).</td>
</tr>
<tr>
<td><strong>China</strong></td>
<td>All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).</td>
</tr>
<tr>
<td><strong>Europe</strong></td>
<td>All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.</td>
</tr>
<tr>
<td><strong>Japan</strong></td>
<td>One or more components in this product are not listed on the Inventory of Existing and New Chemical Substances (ENCS).</td>
</tr>
<tr>
<td><strong>Korea</strong></td>
<td>All components of this product are included on the Existing Chemicals List (ECL).</td>
</tr>
<tr>
<td><strong>New Zealand</strong></td>
<td>All components of this product are included on the New Zealand Inventory.</td>
</tr>
<tr>
<td><strong>Philippines</strong></td>
<td>All components in this product are listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).</td>
</tr>
</tbody>
</table>
16. Other Information

Date Prepared or Revised: January 2020
Supersedes: September 2019
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

- H312: Harmful in contact with skin.
- H331: Toxic if inhaled.
- H335: May cause respiratory irritation.
- H341: Suspected of causing genetic defects.
- 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.

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