

**1. IDENTIFICATION**

**Product Identifier:** Part B CSS-ES  
**Recommended Use:** Two-Component Epoxy Resin System – Part B (Polyamide Curing Agent)  
**Use Restrictions:** None known.  
**Company:** Simpson Strong-Tie Company Inc.  
**Address:** 5956 W. Las Positas Blvd.  
 Pleasanton, CA 94588  
**Phone:** 1-800-999-5099  
**Website:** www.strongtie.com  
**Emergency:** 1-800-535-5053 (US/Canada)  
 1-352-323-3500 (International)

For most current SDS, please visit our website at [www.strongtie.com/sds](http://www.strongtie.com/sds)

**2. HAZARD IDENTIFICATION**



**Physical Hazards:** Not Classified.  
**Health Hazards:** Acute Toxicity, Oral Category 4  
 Skin Corrosion/Irritation Category 1  
 Serious Eye Damage/Irritation Category 1  
**Environmental Hazards:** Acute Environmental Hazard Category 3  
 Chronic Environmental Hazard Category 2

**Signal Word:** DANGER!  
**Hazard Statements:** Harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**  
**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing/eye protection/face protection. Do not breathe the mist or vapor. Wash thoroughly after handling. Contaminated clothing should not be allowed out of the workplace.  
**Response:** If swallowed: Rinse mouth. No NOT induce vomiting. 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 reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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.  
**Storage:** Store locked up. Store in a well-ventilated place.  
**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise Classified (HNOC):** None known.

**3. COMPOSITION INFORMATION**

Chemical Name	CAS Number	Weight %
Polyoxypropylenediamine	9046-10-0	50-60
Formaldehyde, polymer with benzineamine, hydrogenated	135108-88-2	20-25
Benzyl Alcohol	100-51-6	20-25
Tris-2,4,6-(dimethylaminomethyl)phenol	90-72-2	5-10

**Composition Note:** This product is a mixture. Hazardous ingredients are listed above. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

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4. **FIRST-AID MEASURES**

<b>Eye Contact:</b>	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, <b>consult a physician.</b>
<b>Skin Contact:</b>	Remove contaminated clothing and product; wash affected area with soap and water. If redness, burning, or swelling persists, <b>consult a physician.</b>
<b>Ingestion:</b>	Rinse mouth. If you feel unwell, <b>consult a physician.</b>
<b>Inhalation:</b>	Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, <b>consult a physician.</b>
<b>Most Important Symptoms:</b>	Corrosive effects. Symptoms include itching, burning, redness, swelling, and blurred vision. May cause temporary blindness and severe eye damage.
<b>General Information:</b>	Provide general supportive measures and treat symptomatically. 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.

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5. **FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media:</b>	Water fog, carbon dioxide, dry chemical powder, aqueous foam.
<b>Additional Information:</b>	None known.
<b>Hazards during Fire-Fighting:</b>	Irritating and toxic fumes may be produced at high temperature. Hazardous gases/vapors produced are carbon monoxide, carbon dioxide, oxides of nitrogen, cyanide, aldehydes, and miscellaneous hydrocarbons.
<b>Fire-Fighting Procedures:</b>	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.

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6. **ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions:</b>	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Local authorities should be advised if significant spillages cannot be contained.
<b>Clean-up Methods:</b>	<b>Small spills:</b> 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. <b>Large spills:</b> 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.
<b>Environmental Precautions:</b>	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

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7. **HANDLING AND STORAGE**

<b>Handling:</b>	Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid breathing fumes or vapors. When in use do not eat, drink, or smoke. Wash thoroughly after handling. Observe good industrial hygiene practices.
<b>Storage:</b>	Store in a closed container away from incompatible materials (Section 10 of the SDS). Keep in original container. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Keep away from heat and sources of ignition. Protect from physical damage.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**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 normal use of this product. An approved respirator should be worn whenever workplace conditions warrant respirator use.  
**General Hygiene:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.  
**Engineering Controls:** When using indoors good general ventilation should be used. Ventilation rates should be matched to conditions. Provide eyewash station.  
**Exposure Limits:**

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Benzyl Alcohol (CAS 100-51-6)	N/E	N/E	10 ppm

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b> Liquid	<b>Freezing/Melting Point:</b> N/E
<b>Form:</b> Liquid	<b>Boiling Point:</b> >290°F (>143°C)
<b>Color:</b> Amber	<b>Flash Point:</b> 230°F (95°C) Open Cup
<b>Odor:</b> Ammoniacal	<b>Evaporation Rate:</b> N/E
<b>Odor Threshold:</b> N/E	<b>Specific Gravity:</b> 8.09 lbs/gal (0.97 kg/L)
<b>pH:</b> N/E	<b>Viscosity:</b> 80 cP
<b>Flammability:</b> N/E	<b>U/L Flammability:</b> N/E
<b>Vapor Pressure:</b> N/E	<b>Vapor Density:</b> N/E
<b>Solubility:</b> Slight (< 10%)	<b>Kow:</b> N/E

**10. STABILITY AND REACTIVITY**

**Reactivity:** This product is stable and non-reactive under normal conditions.  
**Chemical Stability:** Stable under normal storage conditions.  
**Condition to Avoid:** High heat and open flame.  
**Substances to Avoid:** May react vigorously with oxidizing agents and acids.  
**Hazardous Reactions:** Hazardous polymerization will not occur.  
**Decomposition Products:** Ammonia when heated. Carbon dioxide, carbon monoxide, oxides of nitrogen and other organic compounds in a fire. Combustion under oxygen-starved conditions may produce nitriles, cyanic acid, isocyanates, cyanogens, nitrosamines, amides and carbamates.  
**Other Hazards:** CSS-ES is a reactive system and will release considerable heat during cure if allowed to puddle or accumulate.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure:**  
**Ingestion:** Harmful if swallowed. Causes digestive tract burns.  
**Inhalation:** May cause respiratory irritation.  
**Skin contact:** Causes severe skin burns.  
**Eye contact:** Causes serious eye damage.

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**Information on toxicological effects:**

**Acute toxicity:** Not expected to be acutely toxic.

Component	Species	Test Result
Benzyl Alcohol (CAS 100-51-6)	<b>Acute, Oral</b> , LD50	Rat 1230-3000 mg/kg
	<b>Acute, Dermal</b> , LD50	Rabbit 2000 mg/kg
	<b>Acute, Inhalation</b> , LC50	Rat 200-300 mg/l, 8 hours
Reaction Product: Bisphenol-A-(Epichlorohydrin) (CAS 25068-38-6)		
	<b>Acute, Oral</b> , LD50	Rat 368 mg/kg, bw

**Skin corrosion/irritation:** Causes severe skin burns.  
**Eye damage/eye irritation:** Causes serious eye damage.  
**Respiratory sensitization:** No data available.  
**Skin sensitization:** No data available.  
**Germ cell mutagenicity:** No data available  
**Carcinogenicity:** This product is not considered a carcinogen by IARC, NTP, ACGIH, or OSHA.  
**Reproductive toxicity:** No data available.  
**Aspiration hazard:** No data available.  
**Specific target organ toxicity:**  
**single exposure:** No data available.  
**repeated exposure:** No data available.

**Further information:** Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** Information given is based on data on the components and the ecotoxicology of similar products. The product is classified as toxic to aquatic life with long lasting effects.

Component	Species	Test Result
Benzyl Alcohol (CAS 100-51-6)	<b>Aquatic</b> , Fish, LC50	Bluegill 10 mg/l, 96 hours
	<b>Aquatic</b> , Fish, LC50	Poecilia reticulata 63 mg/l, 96 hours
Formaldehyde, polymer with benzineamine, hydrogenated (CAS 135108-88-2)	NOEC	Poecilia reticulata 40 mg/l, 96 hours
	NOEC	Algae 0.32 mg/l, 72 Hours

**Persistence and degradability:** No data available.  
**Bioaccumulative potential:** No data available for the product.  
**Mobility in soil:** No data available.  
**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal of Substance:** Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Container Disposal:** Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORTATION INFORMATION**

**United States Department of Transportation (USDOT):**

**UN number:** UN2735  
**UN proper shipping name:** Amines, liquid, corrosive, n.o.s. (Polyoxypropylenediamine)  
**Transport hazard class(es):** 8  
**Packing Group:** III

**International Air Transportation Association (IATA):**

**UN number:** UN2735  
**UN proper shipping name:** Amines, liquid, corrosive, n.o.s. (Polyoxypropylenediamine), 8, III  
**Transport hazard class(es):** 8  
**Packing Group:** III  
**Environmental hazards:** Yes  
**Labels required:** 8  
**ERG Code:** 8L

**International Maritime Dangerous Goods Code (IMDG):**

**UN number:** UN2735  
**UN proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine), 8, III, Marine Pollutant  
**Transport hazard class(es):** 8  
**Packing Group:** III  
**Marine pollutant:** Yes  
**Labels required:** 8  
**EmS:** F-A, S-B

**Special precautions for user:** Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not Applicable.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

**15. REGULATORY INFORMATION**

**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** Not regulated.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

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

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

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

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

**US State Right-To-Know Lists**

Chemical	Massachusetts RTK	New Jersey Work and Community RTK Act	Pennsylvania Worker and Community RTK Law	Rhode Island RTK
Benzyl Alcohol (CAS 100-51-6)	Listed		Listed	

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This product does not contain any chemicals known to the State of California to cause cancer or reproductive harm as per California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986).

**International Inventories**

Country or Region	Inventory	On Inventory? (Yes/No)
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

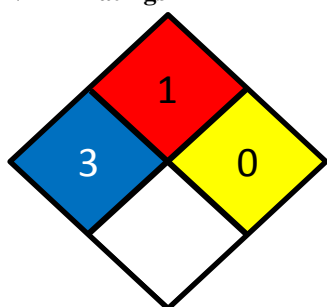
This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

<b>Class E: Corrosive Material</b>	<b>Class D-2B: Material Causing other toxic effects</b>

**16. OTHER INFORMATION**

**Date Prepared or Revised:** May 2014  
**Supersedes:** September 2013

**NFPA Ratings**



**HMIS Rating**

HEALTH HAZARD	3
FLAMMABILITY HAZARD	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

**Legend**

- ACGIH:** American Conference of Governmental Industrial Hygienists
- CAS No.:** Chemical Abstract Service Registry Number
- CERCLA:** Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
- CPR:** Controlled Product Regulations (Canada)
- DOT:** Department of Transportation (U.S.)
- EPA:** Environmental Protection Agency (U.S.)
- GHS:** Globally Harmonized System of Classification and Labeling of Chemicals
- HEPA:** High-Efficiency Particulate Air
- HMIS:** Hazardous Materials Identification System

# CSS-ES Epoxy Primer and Saturant

## SAFETY DATA SHEET

<b>IARC:</b>	International Agency for Research on Cancer
<b>IATA:</b>	International Air Transport Association
<b>IMDG:</b>	International Maritime Dangerous Goods code
<b>LPP:</b>	Limité Permissible Ponderado (Chile)
<b>NIOSH:</b>	National Institute of Occupational Safety and Health (U.S.)
<b>NFPA:</b>	National Fire Protection Association (US)
<b>NTP:</b>	National Toxicology Program (US)
<b>OSHA:</b>	Occupational Safety and Health Administration (U.S.)
<b>PEL:</b>	Permissible Exposure Limit
<b>SARA:</b>	Superfund Amendments and Reauthorization Act (U.S. EPA)
<b>SDS:</b>	Safety Data Sheet
<b>STEL:</b>	Short Term Exposure Limit (15 minute Time Weighted Average)
<b>STOT:</b>	Specific Target Organ Toxicity (GHS Classification)
<b>TLV:</b>	Threshold Limit Value
<b>TSCA:</b>	Toxic Substances Control Act (U.S.)
<b>TWA:</b>	Time Weighted Average (exposure for 8-hour workday)
<b>U.S.:</b>	United States
<b>VOC:</b>	Volatile Organic Compounds
<b>WHMIS:</b>	Canadian Workplace Hazardous Materials Information System

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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CSS-ES Part A:  
XCOM3B

CSS-ES Part B:  
XCOM3B  
XCORR