


**TRIDENT EPOXY RESIN – PART B**
**Section 1. Product and Company Identification**

**Product Name:** Trident Epoxy Resin – Part B  
**Supplier:** CSNRI | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491  
**Emergency Phone Number:** 800.424.9300 (CHEMTREC)  
 +1 703.741.5970 (Outside the US)  
**Product Description:** Hardener solution  
**Product Use:** Corrosion control, sealant, coating and patching.  
**Chemical Name or Synonym:** N/A

**Section 2. Hazards Identification**
**Classification of the substance or mixture**

Skin corrosion/irritation – Category 2  
 Serious eye damage/eye irritation – Category 2A  
 Skin sensitization - Category 1


**Hazard Statements:**

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation

**Signal Word:** Warning

**Precautionary Statement:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P262 Do not get in eyes, on skin, or on clothing.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

**National Fire Protection Association Hazard Ratings – NFPA(R):**

Health Hazard: 2  
 Flammability: 1  
 Reactivity: 0

**Section 3. Composition/Information on Ingredients**

Chemical Name	CAS-No	Weight %
Benzyl alcohol	100-51-6	12-40
Methyleneoxide (polymer with benzenamine) hydrogenated	135108-88-2	20-60
4,4'-Methylene biscyclohexanamine	1761-71-3	1-2
2,4,6-tris(dimethylaminomethyl) phenol	90-72-2	1-2

**Section 4. First Aid Measures****First Aid Measures for Accidental:**

**Eye Exposure:** Hold eyelids apart, initiate and maintain gentle irrigation, (flushing), until the patient receives medical care. If medical care is not available maintain irrigation for 1 hour. Remove contact lenses.

**Skin Exposure:** Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Get under safety shower after removing clothing. Seek medical attention if irritation develops after area is washed.

**Inhalation:** If breathing is stopped or labored give assisted respirations. Supplemental oxygen may be indicated. If heart has stopped, give cardiopulmonary resuscitation immediately. Move to fresh air.

**Ingestion:** Do not induce vomiting. Give one to two cups of milk or water to drink. Do not give anything by mouth to an unconscious person, consult a physician. If vomiting occurs naturally have patient lean forward to reduce the risk of aspiration.

**General Advice:** Seek medical advice. If breathing has stopped or is labored, give assisted respiration. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately

**Most important symptoms/effects, acute and delayed:**

**Acute Health hazard:** Eye, skin and lung damage upon acute contact.

**Chronic health Hazard:** This product contains no listed carcinogens according to IARC, ACGIH, NTP in concentrations of 0.1%.

**Medical Conditions General Aggravated by Exposure:** Eye, disease, skin disorders and allergies, asthma.

**Over-exposure signs/symptoms:** No Available

**Section 5. Fire Fighting Measures**

**Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, dry chemical, dry sand or limestone powder.

**Special Fire Fighting Procedures:** Use self-contained breathing apparatus, and full protective equipment.

**Special Protective Equipment for Fire-fighters:** Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes helmet, coat, pants, boots, and gloves). Avoid contact with this material during fire-fighting operations. If contact is likely, change to full chemical resistant clothing with SCBA. This will not provide sufficient fire protection, consider fighting fire from a remote location.

**Unusual Fire and Explosion Hazards:** Incomplete combustion may form carbon monoxide, (co). May generate ammonia and toxic nitrogen oxide gases. Burning produces toxic and noxious fumes. Personnel downwind must be evacuated.

**Hazardous Decomposition Materials (Under Fire Conditions):** Ammonia, nitrogen oxides, other toxic and noxious gases.

**Section 6. Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Construct a dyke if necessary, to prevent spreading. Place waste in appropriate chemical waste container and contact thin film technology for advice regarding disposal. Use self-contained breathing apparatus and chemically protective clothing if severe exposure is a possibility.

**Cleanup and Disposal of Spill:** Soak up with inert absorbent material, collect into closable labeled containers and dispose of in accordance with applicable local and federal environmental control regulations.


**TRIDENT EPOXY RESIN – PART B**
**Section 7. Handling and Storage**

**Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). Do not use sodium nitrite or other nitrosating products in formulations using this product. Avoid prolonged or repeated contact with the skin. Wash thoroughly after handling. Ensure there is adequate ventilation in the work area. Avoid breathing vapors of heated material. Never apply direct flame to any container of product.

**Conditions for safe storage including any incompatibilities:** Store in accordance with local regulations. Store in original container protected from direct sunlight in dry, cool, well ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store near acids. Keep away from alkalis. Keep containers tightly closed in a cool, well ventilated space. Recommended storage temperatures are 10 - 35°C.

**Section 8. Exposure Controls / Personal Protection**

**Exposure Guideline Limits:** Not established for any ingredient

**Appropriate Engineering Controls:** Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Provide readily accessible eye wash stations and safety showers.

**Personal Protective Equipment:**

**Respiratory Protection:** None normally required. In case of inadequate ventilation use NIOSH-approved respirator.

**Eye / Face Protection:** Wear splash proof chemical goggles and/or face shield if splashing is possible.

**Skin Protection:** Wear suitable impervious rubber or plastic gloves such as neoprene, nitrile rubber or butyl-rubber. Wear impervious clothing such as rain gear if bodily contact might be possible.

**Section 9. Physical and Chemical Properties**

<b>Physical Appearance:</b>	Dark green light paste
<b>Odor:</b>	Ammonia like
<b>Odor Threshold:</b>	ND
<b>pH:</b>	11 - 12
<b>Melting Point Range:</b>	<32 °F (<0 °C)
<b>Boiling point:</b>	>420 °F (>215 °C)
<b>Evaporation rate:</b>	Slower than ether
<b>Flash Point:</b>	>212°F (100°C)
<b>Method Used:</b>	Closed Cup
<b>Flammability Limits (vol/vol%):</b>	<b>Lower:</b> N/A <b>Upper:</b> N/A
<b>Vapor Pressure:</b>	<0.7mm Hg at 21 °C/70 °F
<b>Vapor Density:</b>	(Air = 1) at 21 °C/70 °F: 3.72 vs. Water = 1
<b>Relative Density:</b>	ND
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.6 at 21 °C/70 °F
<b>Water Solubility:</b>	Very slightly soluble in cold water
<b>Partition coefficient (n-octanol/water):</b>	ND.
<b>Auto-ignition Temperature:</b>	ND
<b>Decomposition Temperature:</b>	ND
<b>Viscosity:</b>	45,000 cPs
<b>Percent Solids by Weight:</b>	>99.5

**TRIDENT EPOXY RESIN – PART B**

Percent Volatile by Weight: <0.5

**Section 10. Stability and Reactivity**

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

**Chemical Stability:** Stable under standard use and storage conditions.

**Conditions to Avoid:** Contact with acids. CAUTION: N-nitrosamines, many of which are potent carcinogens, may be formed when the mixture comes in contact with nitrous acid, nitrites or high concentrations of nitrous oxide. Avoid contact with acids, oxidizing agents, sodium hypochlorite.

**Incompatible Materials / Chemicals:** Acids, oxidizing agents, sodium hypochlorite.

**Hazardous Decomposition Products:** Nitrosamines, phenolics, carbon monoxide, carbon dioxide and other organic fragments of thermal decomposition.

**Hazardous Polymerization:** Self polymerization will not occur

**Section 11. Toxicological Information**

**Toxicological effects:**

**Ingestion:** LD50: > 3,000mg/kg (rat)

**Inhalation:** No data

**Dermal:** LD50: >5,000mg/kg (rat)

**Inhalation:** May cause irritation of the respiratory tract.

**Ingestion:** May cause gastrointestinal irritation if swallowed.

**Eye contact:** May cause eye irritation or burns. May cause permanent visual impairment.

**Skin contact:** Exposure may cause skin irritation and burns.

**Chronic Health Effects:** Eye, skin and lung damage upon acute contact. Mixed polycycloaliphatic amines was tested in rats for systemic effects in a subchronic, (28 day), oral study at doses ranging from 15 to 300 mg/kg/day./ effects seen at 300 mg/kg/day included decreased survival, decreased body weight gain, increased liver, kidney and adrenal weights and histological changes in liver, kidney adrenals and spleen. The no-observed-adverse-effect-level, (NOAEL), was 15 mg/kg/day.

**Delayed and immediate effects and also chronic effects from short and long-term exposure:**

Short term exposure: No specific data.

Long term exposure: No specific data

**Section 12. Ecological Information**

**Ecotoxicity:** No data is available on the mixed product.

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** Does not bioaccumulate.

**Mobility in soil:** No further relevant information available.

**Other adverse effects:** No further relevant information available.

**Section 13. Disposal Considerations**

**Waste treatment methods:** Do not dump to ground, sewer or watercourses. Discard any product, residue, disposable container or liner in full compliance with Federal, State, and Local regulations.

**Uncleaned packagings:** Dispose of in accordance to all local, state, and/or national legislation.


**TRIDENT EPOXY RESIN – PART B**
**Section 14. Transport Information**
**IMDG / RID / IATA / ADR**

Shipping Name:	Not regulated
Technical shipping name:	Not Applicable
U.N. number:	Not Applicable
Hazard class:	Not Applicable
Packing group:	Not Applicable

**Section 15. Regulatory Information**
**U.S. Federal Regulations**

TSCA (toxic substance control act) components: None

**State Regulations:** California proposition 65: This product does not contain any chemicals known to the state of California to cause cancer or birth defects.

**Section 16. Other Information**
**Key Legend Information:**

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit

NIOSH – National Institute for Occupational Safety and Health

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. CSNRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. CSNRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material. **CSNRI DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR FREEDOM FROM PATENT INFRINGEMENT. CSNRI WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

Date of issue: 05.06.15

Revision date: 11.15.19

Supersedes: 05.06.15

Version: 4