


TRIDENT EPOXY RESIN - PART A
Section 1. Product and Company Identification

Product Name: Trident Epoxy Resin – Part A
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: Epoxy 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 2B
 Skin sensitization - Category 1


Hazard Statements:

H311 Toxic in contact with skin
 H315 Causes skin irritation.
 H320 Causes eye 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 %
Epoxy resin liquid polymer	25068-38-6	50-75
P-Tertbutylphenyl glycidyl ether	3101-60-8	5-20
Poly(Tterephthaloylchloride) P-Phenylenediamine	26125-61-1	2-5

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


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Eye Exposure: Flush with copious amount of water. Preferably lukewarm, for at least 15 minutes, holding eyelids open at all times. Refer individual to a physician or ophthalmologist for immediate follow up.

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: Move to an area free from risk of further exposure. Administer oxygen as needed. Obtain medical attention. Asthmatic –type symptoms may develop and may be immediate or delayed up to several hours. Consult physician should this development occur.

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.

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: No Available

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. May personnel downwind must be evacuated.

Hazardous Decomposition Materials (Under Fire Conditions): Phenolics, carbon monoxide, carbon dioxide and other organic fragments of thermal decomposition.

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.

Section 7. Handling and Storage

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). 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


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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

Physical Appearance:	White light paste
Odor:	Slightly sweet characteristic of epoxy resin
Odor Threshold:	ND
pH:	7
Melting Point Range:	<32 °F (<0 °C)
Boiling point:	>420 °F (>215 °C)
Evaporation rate:	Slower than ether
Flash Point:	>212°F (100°C)
Method Used:	Closed Cup
Flammability Limits (vol/vol%):	Lower: N/A Upper: N/A
Vapor Pressure:	<0.7mm Hg at 21 °C/70 °F
Vapor Density:	ND
Relative Density:	ND
Specific Gravity:	1.15 at 21 °C/70 °F
Water Solubility:	Essentially insoluble in cold water
Partition coefficient (n-octanol/water):	ND.
Auto-ignition Temperature:	ND
Decomposition Temperature:	ND
Viscosity:	45,000 cPs
Percent Solids by Weight:	>99.5
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 nitrous acid, nitrites or high concentrations of nitrous oxide.

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

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


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Hazardous Polymerization: Self polymerization will not occur

Section 11. Toxicological Information
Toxicological effects:

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

Inhalation: No data

Dermal: LD50: >20,000mg/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: No data available

Numerical measures of toxicity: No specific data

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 packaging: Dispose of in accordance to all local, state, and/or national regulation.

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

SARA TITLE III (superfund amendments and reauthorization act): acute health hazard

313 Reportable Ingredients: no reportable components


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State Regulations: California proposition 65: this product contains a trace amount of epichlorhydrin, CAS# 106-89-9

Risk Phrases: R36/38 Irritating to eyes and skin
 R43 May cause sensitization by skin contact
 R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases: S2 Keep out of the reach of children
 S3/7/9 Keep container tightly closed in a cool, well-ventilated place.
 S24 Avoid contact with skin
 S28 After contact with skin wash immediately with plenty of water
 S37/39 Wear suitable gloves and eye protection
 S61 Avoid release to the environment

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

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