

Section 1. Product and Company Identification

Product Name: EPN-101 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 resin
Product Use: Intended to repair pipes
Chemical Name or Synonym: N/A

Section 2. Hazards Identification

Classification of the substance or mixture:

Skin corrosion/irritation – Category 2
Eye damage/eye irritation – Category 2A
Skin sensitization - Category 1
Chronic Aquatic Toxicity – Category 2

Label Elements:



Hazard Statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 Toxic to aquatic life with long lasting effects

Signal Word: Warning

Precautionary Statement:

P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P273 - Avoid release to the environment
P391 - Collect spillage

Section 3. Composition/ Information on Ingredients

Chemical Name	CAS-No	Weight %
Bisphenol A-(Epichlorhydrin) (Reaction Product)	25068-38-6	10 – 50
Bisphenol F Type Epoxy Resin	28064-14-4	10 – 50

Section 4. First Aid Measures

First Aid Measures for Accidental:

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Ingestion: Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Most important symptoms/effects, acute and delayed:

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Indication of immediate medical attention and special treatment needed: No information available

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: Alcohol or polymer foam. Dry chemical powder. Carbon dioxide.

Unsuitable Extinguishing Media: No information available.

Special Protective Equipment and Precautions for Fire-fighters: Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary with a full face-piece operated in positive pressure mode to protect against potential harmful and/or irritating fumes. Use water to keep fire exposed containers cool.

Specific Hazards Arising from the Chemical (Under Fire Conditions): In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental Precautions: Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas.

Methods and Materials for Containment and Cleaning Up: Move containers from spill area. Dike and absorb with inert absorbent material (e.g., sand) and collect in a suitable, closed and labeled container. Wash the spill area with water and detergent. 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse empty container.

Conditions for safe storage including any incompatibilities: Store in a cool, dry place with adequate ventilation. Keep in original containers. Store in tightly closed containers to prevent moisture absorption and loss of volatiles. Store away from heat and open flame.

Section 8. Exposure Controls / Personal Protection

Exposure Guidelines: None established.

Appropriate Engineering Controls: Ventilation must be adequate for most operations.

Personal Protective Equipment:

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Use respirators when exposure to vapors from heated material.

Eye / Face Protection: Wear safety glasses with side shields or chemical splash goggles when exposure is more likely.

Skin Protection: Wear chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

Additional protective measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and Chemical Properties

Physical State:	Paste
Colour:	Dark grey
Odour:	Barely perceptible odor
Melting Point/ Freezing Point:	No data available
Boiling point:	> 200 °C
Flammability (solid, gas):	No data available
Lower and Upper Explosion limits/ Flammability Limits:	No data available
Flash Point:	> 150 °C
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
pH:	No data available
Solubility:	Insoluble in water
Evaporation rate (ether=1):	Negligible
Flammability Limits in Air:	No data available
Solubility in other solvents:	No data available
Partition coefficient (n-octanol/water):	No data available
Vapour Pressure:	No data available
Viscosity:	Highly viscous
Density and/or Relative Density:	2.7 g/cc
Relative Vapour Density:	No data available
Particle Characteristics:	No data available

Oxidizing: Non-oxidizing (according to EC criteria)

Section 10. Stability and Reactivity

Reactivity: Stable under recommended transport or storage conditions.

Chemical Stability: Stable under standard normal conditions.

Possibility of Hazardous reactions: None under normal processing. Hazardous polymerization will not occur by itself.

Conditions to Avoid: Direct sunlight. Flames.

Incompatible Materials / Chemicals: Strong acids. Strong oxidising agents. Amines. Alkalis.

Hazardous Decomposition Products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11. Toxicological Information

Information in the likely route of exposure:

Potential Acute Health Effects:

Irritation effect: Hazardous (Calculated basis)

Sensitization: Hazardous (Calculated basis)

Symptoms related to the physical, chemical and toxicological characteristics:

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Potential Chronic Health Effects:

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenic Effects: No information available.

Reproductive Toxicity: No information available.

Developmental Toxicity: No information available.

STOT- single exposure: No information available.

STOT- repeated exposure: No information available.

Target Organ Effects: No information available.

Aspiration Hazard: No information available.

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

Short term exposure: No information available.

Long term exposure: No information available.

Numerical measures of toxicity:

Product	Endpoint	Species	Results	Exposure
Mixture	LD50 Oral LD50 Dermal	Rat Rabbit	>2000 mg/kg >2000 mg/kg	-
Bisphenol A- (Epichlorhydrin)	LD50 Oral LD50 Oral LD50 Skin	Mouse Rat Rabbit	15,600 mg/kg 11,400 mg/kg >20 ml/kg	-

Section 12. Ecological Information**Ecotoxicity Effects:**

Species	Test	Value
Fish	96 hrs LC50	>5,000 mg/l

Persistence and degradability: Not biodegradable.

Bioaccumulative potential: Bioaccumulation potential.

Mobility in soil: Insoluble in water

Results of PBT and vPvB assessment: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Toxic to aquatic organisms.

Section 13. Disposal Considerations

Waste treatment methods: Transfer to a suitable container and arrange for collection by specialized disposal company. Mixed material, once fully cured, can be disposed as solid waste.

Waste code number: 08 04 09

Uncleaned packaging: Dispose in a regulated landfill site or other method for hazardous or toxic wastes.

Section 14. Transport Information

DOT: Not Regulated

IATA

UN number: UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A- (epichlorhydrin))

Class: 9

Packing group: III

Marine pollutant: Yes

IMDG

UN/ID No.: UN 3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A- (epichlorhydrin))

Class: 9

Packing group: III

EmS Code: F-A, S-F

Marine pollutant: Yes

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture: No information available.

Chemical Safety Assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16. Other Information

This Safety Data Sheet in accordance with Regulation No. 2015/830.

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

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