

SAFETY DATA SHEET



Date Issued : 6/6/2014

SDS No : 125438

Date Revised : 6/9/2014

Revision No : 1

Pipe Line Epoxy Resin EL 508-A

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Pipe Line Epoxy Resin EL 508-A

PRODUCT DESCRIPTION: Epoxy Resin

PRODUCT CODE: 125438

MANUFACTURER

Infrastructure Repair Systems, Inc.
4301 A 34th Street North
St. Petersburg, FL 33714

Emergency Phone: 1-800-255-3924

Customer Service: 1-877-327-4216

E-Mail: <http://www.irsi.net/>

24 HR. EMERGENCY TELEPHONE NUMBERS

Chem-Tel (800) 255-3924

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Eye Irritation, Category 2

Skin Irritation, Category 2

Skin Sensitization, Category 1

Acute Toxicity (Dermal), Category 5

Acute Toxicity (Oral), Category 5

Environmental:

Aquatic Toxicity (Acute), Category 1

GHS LABEL



Exclamation mark Environment
mark

SIGNAL WORD: WARNING

HAZARD STATEMENTS

H320: Causes eye irritation.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H313: May be harmful in contact with skin.

H303: May be harmful if swallowed.

H400: Very toxic to aquatic life.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
 5670DHML: P264: Wash skin thoroughly after handling

Response:

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.
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.
 P332+P313: If skin irritation occurs: Get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.
 P312: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

P403: Store in a well-ventilated place.

Disposal:

P273: Avoid release to the environment.
 P501: Dispose of contents/container in accordance with all Federal, State, and local regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear, green syrup

IMMEDIATE CONCERNS: Skin, eye and possible throat irritation. Can cause skin sensitization.

POTENTIAL HEALTH EFFECTS

EYES: Can cause eye irritation. Symptoms include: stinging, tearing, redness, and swelling of the eyes.

SKIN: Can cause skin irritation. Prolonged or repeated contact may cause sensitization. Symptoms include redness, burning, and drying and cracking of skin, burns and other skin damage.

INGESTION: Minimal risk from ingestion during normal industrial use.

INHALATION: May be slightly irritating to the respiratory tract.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Bisphenol A/epichlorohydrin Resin	80 - 90	25068-38-6
Alkyl (C12-C14) Glycidyl Ether	0 - 15	68609-97-2
Non Hazardous additives	< 1	

4. FIRST AID MEASURES

EYES: Flush eyes for at least 15 minutes, holding eyelids open. If easily accomplished, check for and remove contact lenses. Seek immediate medical attention.

SKIN: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

INGESTION: Give 1-2 glasses of water. Do not induce vomiting. If health effects occur, seek medical attention.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek

medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: Not categorized as Flammable by GHS standards.

EXTINGUISHING MEDIA: Use dry chemical, CO₂, or foam

FIRE FIGHTING PROCEDURES: Evacuate any non-essential personnel. Extinguish all ignition sources if safe to do so. Use water to cool exposed containers and structures until fire is out. Avoid spreading burning material with water used for cooling purposes.

FIRE FIGHTING EQUIPMENT: Full Bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, NIOSH approved, self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Extinguish all near by ignition sources. Stop leak if it can be done safely. Prevent from entering waterways and sewers. Absorb with non-combustible material and transfer into appropriate disposal container.

LARGE SPILL: Follow procedure for small spills. Dike ahead of spill to contain material. Water mist may be used to disperse vapors. Notify proper authorities if the spill cannot be contained. Follow Federal, State, and local regulations for disposal.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow spill to enter drains, sewers or waterways.

GENERAL PROCEDURES: Always ensure proper ventilation from any spill. Respirators or SCBA are required if permissible exposure limits are exceeded due to inadequate general ventilation. All spills should be contained as best as possible. All chemical spills should be assumed to be hazardous to the environment to ensure safety.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with Skin, Eyes and Clothing

HANDLING: Avoid prolonged or repeated exposure with skin. Avoid contact with eyes. Only handle in adequate ventilation.

STORAGE: Storage is best in the original containers at temperatures between 70 to 85 F (20 to 30 C).

Product may crystallize upon extended storage but can be returned to usable condition upon warming back to a liquid state

STORAGE TEMPERATURE: Material may crystallize during prolonged storage. Material can be warmed up to (160F) to dissolve crystals and used as recommended.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
		EXPOSURE LIMITS			
		OSHA PEL		ACGIH TLV	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³
Bisphenol A/epichlorohydrin Resin	TWA	N/E [1]	[1]	N/E	
Alkyl (C12-C14) Glycidyl Ether	TWA	N/E [1]	[1]	N/E	
Footnotes:					
1. N/E = Not Established					

ENGINEERING CONTROLS: Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (PEL/TLV). Any installed emergency eye wash station or safety showers should be located near the work area.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and/or face shield. Always use proper eye protection around the work area.

SKIN: Wear impermeable gloves. Clothing should limit skin exposure. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product. Maintain eyewash and shower station near work area in case of exposure.

RESPIRATORY: Vapor respirator may be required if exposure limits are exceeded. Use a NIOSH approved respirator or equivalent when required. Proper mechanical ventilation should be installed to ensure the exposure levels are below the allowable thresholds (PEL/TLV).

WORK HYGIENIC PRACTICES: Never eat or drink in areas where the chemical is being used. Wash hands after handling to limit exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Viscous liquid.

ODOR: Slight

APPEARANCE: Clear, green syrup

pH: No data available.

PERCENT VOLATILE: No data available.

FLASH POINT AND METHOD: 118°C (245°F) Pensky Martin Closed Cup ASTM D 93

FLAMMABLE LIMITS: No data available.

AUTOIGNITION TEMPERATURE: No data available.

VAPOR PRESSURE: < 1 mm Hg @ 20 C

VAPOR DENSITY: > 1

BOILING POINT: > 216°C (420°F)

FREEZING POINT: No data available.

MELTING POINT: No data available.

SOLUBILITY IN WATER: Slightly soluble

EVAPORATION RATE: No data available.

SPECIFIC GRAVITY: 1.12 (Water = 1)

VISCOSITY: No data available.

(VOC): No data available.

WEIGHT PER VOLUME: No data available.

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

STABILITY: This product is stable under normal conditions of storage and use.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with incompatible materials and ignition sources / heat.

INCOMPATIBLE MATERIALS: Avoid all unplanned contact with strong reactive chemicals, Acids, Bases, Aliphatic Amines, and Oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)
Bisphenol A/epichlorohydrin Resin	> 5000 mg / kg (Rat)	> 20000 mg / kg (Rabbit)
Alkyl (C12-C14) Glycidyl Ether	17100 mg / kg (Rat)	> 4000 mg / kg (Rabbit)

EYE EFFECTS: Eye irritant

SKIN EFFECTS: Skin Irritant, Sensitizer.

CARCINOGENICITY

Notes: Not considered carcinogenic by OSHA, NTP, or IARC.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Based on stringent OECD test guidelines this material cannot be considered as readily biodegradable: however these results do not mean that the material is not biodegradable under environmental conditions.

ECOTOXICOLOGICAL INFORMATION: Do NOT discharge into sewers or waterways.

BIOACCUMULATION/ACCUMULATION: Product shows moderate potential for bioaccumulation. Potential for mobility in soil is low. Not readily biodegradable.

AQUATIC TOXICITY (ACUTE): Values for : Alkyl (C12-C14) Glycidyl Ether (CAS# 68609-97-2):

96-HOUR LC₅₀: 0.002 mg/L (Oryzias latipes)

48-HOUR EC₅₀: 0.003 mg/L (Crustaceans)

96-HOUR EC₅₀: 0.003 mg/L (Algae)

Notes: Material is a Marine Pollutant.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Disposal should be in accordance with all Federal, State, and local regulations. Empty containers may still be considered dangerous due to residual vapors/liquid/dust.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not Regulated by DOT

MARINE POLLUTANT #1: Listed.

ROAD AND RAIL (ADR/RID)

PROPER SHIPPING NAME: Resin Solution

UN NUMBER: 3082

HAZARD CLASS: 9

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Resin Solution

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Resin Solution

UN/NA NUMBER: 3082

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: III

EmS: F-A; S-F

MARINE POLLUTANT #1: Listed.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Immediate (Acute) health hazard.

FIRE: No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

313 REPORTABLE INGREDIENTS: None

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: None required

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All Components listed.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: This products a "Hazardous Chemical " as defined by the OSHA hazardous Communication Standard 29 CFR 1910.1200

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm. Epichlorohydrin 106-89-8

CARCINOGEN: None Expected.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Class D-2B: Toxic material causing other toxic effects.

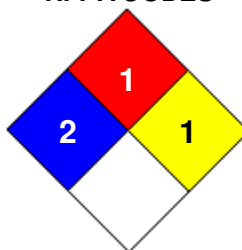
16. OTHER INFORMATION

PREPARED BY: Fiberglass Coatings, Inc. (GS)

REVISION SUMMARY: This MSDS replaces the 6/9/2014 MSDS.

HMIS RATING

HEALTH	<input type="checkbox"/>	2
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input type="checkbox"/>	

NFPA CODES

HMIS RATINGS NOTES: The customer is responsible for determining the PPE code for this material.

MANUFACTURER DISCLAIMER: This information is compiled from sources believed reliable as of the date of issue, it is provided in good faith and correct to the best of our knowledge. No warranty, guarantee, or representation is made as to the sufficiency of the information for the safe use of the product nor to relieve the end user of their own Federal, State, and Local regulatory compliance requirements.