

**MATERIAL SAFETY DATA SHEET**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for requirements.

**Company Identification:** Fiberglass Coatings, Inc.

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Emergency Telephone Number:

Chem-Tel: 800-255-3924

Date Prepared: 06/09

Prepared By: RD

| <b>SECTION 1:</b>                   | <b>MATERIAL IDENTIFICATION</b>   |                               |                                |
|-------------------------------------|--|-------------------------------|--------------------------------|
| Product Identity:                   | Pipe Line Epoxy Resins EL 508 A (R 1) 65301000, 65900100   |                               |                                |
| Shipping Name:                      | Resin Compound Not DOT regulated<br>HMIS code Health 1, Fire 1, Reactivity 1   |                               |                                |
| Chemical family:                    | Liquid Epoxy Resin   |                               |                                |
| <b>SECTION 2:</b>                   | <b>COMPOSITION</b>   |                               |                                |
|                                     | / <u>CAS NO.</u> / <u>PERCENT</u> / <u>OSHA PEL</u> / <u>ACGIH TL</u>  |                               |                                |
| Components:                         | Bisphenol A Epichlorohydrin based Epoxy resin  |                               |                                |
|                                     | CAS 25068-38-6   | 80 - 90%                      | N/E N/E                        |
|                                     | Alkyl Glycidyl Ether CAS 68609-97-2  | 0 - 15%                       | N/E N/E                        |
|                                     | Non Hazardous additives and dyes   | < 1 %                         | N/A N/A                        |
|                                     | (All of the above components are contained in the TSCA chemical inventory.)  |                               |                                |
| <b>SECTION 3:</b>                   | <b>EMERGENCY OVERVIEW</b>  |                               |                                |
| Emergency Overview:                 | Clear or Light Green viscous liquid which may burn if preheated, prolonged exposure may cause skin irritation but is not an immediate health hazard during emergencies.  |                               |                                |
| <b>SECTION 4:</b>                   | <b>PHYSICAL / CHEMICAL CHARACTERISTICS</b>   |                               |                                |
| Boiling Point:                      | N/A  | Specific Gravity (Water = 1): | 1.12                           |
| Vapor Pressure (mm Hg):             | <1   | Melting Point:                | N/A                            |
| Vapor Density (Air = 1):            | >1   | Evaporation Rate:             | N/A                            |
| Solubility in Water:                | none   | Appearance and Odor:          | Clear green syrup, slight odor |
| <b>SECTION 5:</b>                   | <b>FIRE AND EXPLOSION HAZARD DATA</b>  |                               |                                |
| Flash Point & Method Used:          | 118C (245 F) PMCC  | Extinguishing Media:          | Foam, CO2, dry chemical        |
| Flammable Limits: (LEL & UEL)       | N/A  |                               |                                |
| Special Fire Fighting Procedures:   | Material will not burn unless preheated, Remove all unprotected personnel, enter any confined space fire only with full bunker gear including a positive pressure NIOSH approved mask. Smoke will consist mostly of CO2, CO, mixed hydrocarbon gasses, including phenolics. Cool any unexploded drums with water . |                               |                                |
| Unusual Fire and Explosion Hazards: | The pyrolytic (burning) decomposition products of this resin should be treated as potentially hazardous substances and appropriate precautions taken.  |                               |                                |

| <b>SECTION 6:</b>               | <b>REACTIVITY DATA</b>   |
|---------------------------------|--|
| Stability:                      | (Stable or Unstable) Stable at all environmental temperatures.   |
| Incompatible With:              | Strong Acids, Strong bases, especially primary and secondary amines  |
| Hazardous Polymerization:       | May occur after contact with strong acids, bases, primary and secondary amines and at elevated temperatures  |
| Conditions to Avoid:            | Temperatures over 200 F, and contact with other reactive substances, contact of large quantities of this resin with primary and secondary amines may cause a runaway exothermic reaction.  |
| <b>SECTION 7:</b>               | <b>HEALTH HAZRD DATA</b>   |
| Inhalation:                     | Low danger, use positive pressure ventilation in confined spaces.  |
| Eye Contact:                    | Will cause eye irritation, flush with water and seek proper medical attention.   |
| Skin Contact:                   | Moderate skin irritant which may cause sensitization indicated by dermatitis upon repeated prolonged exposure, wash frequently with soap and water   |
| Ingestion:                      | If ingested give large quantities of water and seek prompt medical attention.  |
| Signs and Symptoms of Exposure: | Skin rash or eye irritation.   |
| Carcinogenicity Class:          | No known carcinogenic properties   |
| <b>SECTION 8:</b>               | <b>FIRST AID MEASURES</b>  |
| Inhalation:                     | Remove to fresh air, oxygen may be administered by proper authorities.   |
| Eye Contact:                    | Wash with fresh water, seek medical attention for any prolonged irritation.  |
| Skin Contact:                   | Avoid excessive skin contact wash frequently with soap and water   |
| Ingestion:                      | Water may be given , seek prompt medical attention.  |
| Over Exposure:                  | Treat for symptoms, no known chronic health hazards other then skin sensitization to this same material.   |
| <b>SECTION 9:</b>               | <b>HANDLING AND STORAGE</b>  |
| Spill Management:               | Contain any large spill with dams of rags or other absorbent materials, return as much material as possible to the original container. Take up any remaining material with absorbent materials rags, paper, or other commercial absorbent materials. |
| Waste Disposal:                 | Dispose of all unusable material and contaminated clean up materials in accordance with all federal, state, and local regulations.   |
| Handling:                       | Standard drum type handling  |
| Storage:                        | May store at any environmental air temperature, but cool temperatures are preferable.  |
| Other Precautions:              | N/A  |
| Respirator (Specific Type):     | Activated carbon or Positive pressure device necessary in confined spaces and during any large spill clean up.   |
| Protective Clothing:            | Rubber or latex gloves, dispose of any contaminated clothing.  |
| Eye Protection:                 | Standard eye protection is required.   |
| Ventilation:                    | Good ventilation is necessary, especially after mixing with an amine curing agent.   |
| Work / Hygienic Practices:      | Good general work place hygiene is required especially in regard to ventilation, repeated skin exposure, and eye contact.  |

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May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for requirements.

**Company Identification:** Fiberglass Coatings, Inc.  
Emergency Telephone Number: Chem-Tel: 800-255-3924

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Date Prepared: 09/01 Prepared By: RD

| <b>SECTION 1:</b>                      | <b>MATERIAL IDENTIFICATION</b>  |  |   |
|--|---|--|---|
| Product Identity:                      | Infrastructure Activators EL 508 B1 and B-5<br>IRSI P/N (125438) and (125495)   |  |   |
| Shipping Name:                         | Resin Compound Not DOT regulated                      HMIS code; Health 2, Fire 1, Reactivity 1<br><br>Chemical family            Aliphatic Amine Polyamide Mixture, Epoxy Curing Agent<br>DOT Non Corrosive  |  |   |
| <b>SECTION 2:</b>                      | <b>COMPOSITION</b>  |  |   |
|  | / CAS NO. /   | PERCENT /                                | OSHA PEL / ACGIH TWA                            |
| Components:                            | Polyamide resin            Proprietary Item   | > 25 % < 35 %                            | N/E                      N/E                    |
|  | Triethylenetetramine            CAS 112-24--3   | < 15 %                                   | N/E                      N/E                    |
|  | Diethylenetriamine            CAS 111-40-0  | < 5 %                                    | 1 ppm                      1 ppm                |
|  | TETA reaction products  |  |   |
|  | w/ Phenol formaldehyde            CAS 32610-77-8  | > 40 %                                   | N/E                      N/E                    |
|  | Benzyl Alcohol                      CAS 100-51-6  | < 15 %                                   | N/E                      N/E                    |
|  | Phenol                                      CAS 108-95-2  | < 12 %                                   | 5 ppm                      5 ppm                |
|  | (All of the above components are contained in the TSCA chemical inventory.)   |  |   |
| <b>SECTION 3:</b>                      | <b>EMERGENCY OVERVIEW</b>   |  |   |
| Emergency Overview:                    | Amber to Red viscous liquid which will burn if preheated giving off hazardous smoke which may include CO, CO2, Mixed hydrocarbons, Nitrogen oxide gases and Ammonia gas. Concentrated fumes may be irritating to the lungs, exposure of the material to the skin or eyes may cause irritation and possible permanent damage.  |  |   |
| <b>SECTION 4:</b>                      | <b>PHYSICAL / CHEMICAL CHARACTERISTICS</b>  |  |   |
| Boiling Point:                         | > 200 C (392 F)   | Specific Gravity (Water = 1):            | 1.06  |
| Vapor Pressure (mm Hg):                | <1 mm Hg @ 21 C   | Melting Point:                           | N/A   |
| Vapor Density (Air = 1):               | N/A   | Evaporation Rate:<br>(Butyl Acetate = 1) | N/A   |
| Solubility in Water:                   | slight  | Appearance and Odor:                     | Amber to Red syrup, strong<br>Ammonia like odor |
| Ph                                     | alkaline  |  |   |
| <b>SECTION 5:</b>                      | <b>FIRE AND EXPLOSION HAZARD DATA</b>   |  |   |
| Flash Point & Method Used:             | > 92 C ( 198 F) PMCC  | Extinguishing Media:                     | Foam, water CO2, or dry<br>chemical             |
| Flammable Limits:<br>(LEL & UEL)       | No LEL or UEL limits  | Fire Class B type Fire                   |   |
| Special Fire Fighting<br>Procedures:   | Remove all unprotected personnel, evacuate downwind, enter any confined space fire only with full bunker gear including a positive pressure supplied air NIOSH approved mask. Smoke will consist mostly of CO2, CO, mixed hydrocarbon gasses, Nitrogen oxides and Ammonia gas. Nitrogen oxides may form Nitric acids on contact with water. Contact with this material may cause skin and eye damage. |  |   |
| Unusual Fire and Explosion<br>Hazards: | The pyrolytic (burning) decomposition products of this resin should be treated as potentially hazardous substances and appropriate precautions taken.<br><br>Cool any unexploded drums with water   |  |   |

| <b>SECTION 6:</b>               | <b>REACTIVITY DATA</b>   |
|---------------------------------|--|
| Stability:                      | (Stable or Unstable) Stable at all environmental temperatures.   |
| Incompatible With:              | Strong Acids, Strong bases, especially nitric acid or nitrates, peroxides or reactive metals   |
| Hazardous Polymerization:       | (May or Will Not Occur) May occur after contact with large quantities of Epoxy resins.   |
| Conditions to Avoid:            | Temperatures over 65 C ( 150 F) , and contact with other highly reactive substances.   |
| <b>SECTION 7:</b>               | <b>HEALTH HAZARD DATA</b>  |
| Inhalation:                     | Prolonged close exposure to the mixed material in the final stages of curing may cause respiratory tract distress dryness, nausea and vomiting,  |
| Eye Contact:                    | Will cause eye irritation and damage, and possible short term blurred vision.  |
| Skin Contact:                   | Strong skin irritant which may cause rash, irritation, or sensitization on repeated contact, material may also be absorbed through the skin.   |
| Ingestion:                      | Will be irritating and corrosive to the digestive tract, Seek prompt medical attention, Remove stomach contents by gastric suction prevent aspiration of vomit to lungs.   |
| Signs and Symptoms of Exposure: | Skin rash, eye irritation, nausea, headache or difficulty breathing  |
| Carcinogenicity Class:          | No known carcinogenic properties   |
| <b>SECTION 8:</b>               | <b>FIRST AID MEASURES</b>  |
| Inhalation:                     | Remove to fresh air, if necessary oxygen may be administered by proper authorities.  |
| Eye Contact:                    | Wash with fresh water, seek immediate medical attention for any prolonged irritation.  |
| Skin Contact:                   | Avoid excessive and frequent skin contact wash frequently with soap and water  |
| Ingestion:                      | Gastric suction or induced vomiting may be initiated by trained medical personnel, seek immediate medical attention. Avoid aspiration of the material into the lungs.  |
| Over Exposure:                  | Treat for symptoms, no known chronic health hazards other then sensitization to repeated exposure indicated by dermatitis upon repeated contact  |
| <b>SECTION 9:</b>               | <b>HANDLING AND STORAGE</b>  |
| Spill Management:               | Contain any large spill with dams of rags or other absorbent materials, return as much material as possible to the original container. Take up any remaining material with absorbent materials rags, paper, or other commercial absorbent materials. A carbon filter or positive pressure mask is advisable for large spills i.e. drum quantities. |
| Waste Disposal:                 | Dispose of all unusable material and contaminated clean up materials in accordance with all federal, state, and local regulations. When mixed properly and cured with epoxy the material is inert.   |
| Handling:                       | Standard drum type handling  |
| Storage:                        | May store at any environmental temperature, but storage at cool and stable temperatures not directly on concrete surfaces are preferable for maximum shelf life.   |
| Other Precautions:              | N/A  |
| Respirator (Specific Type):     | Activated carbon or Positive pressure device necessary in confined spaces and during any large spill clean up.   |
| Protective Clothing:            | Butyl Rubber or latex gloves, dispose of any contaminated clothing.  |
| Eye Protection:                 | Standard eye protection is required.   |
| Ventilation:                    | Good ventilation is necessary.   |
| Work / Hygienic Practices:      | Good general work place hygiene is required especially in regard to ventilation, repeated skin exposure, and eye contact.  |

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