

**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.  
Emergency Telephone Number: Chem-Tel: 800-255-3924

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Date Prepared: 04/09 Prepared By: RD

<b>SECTION 1:</b>	<b>MATERIAL IDENTIFICATION</b>			
Product Identity:	Infragard Activator Infrastructure Repair Systems Inc			
Shipping Name:	Resin Compound Not DOT regulated, Non Corrosive HMIS code; Health 2, Fire 1, Reactivity 1 Common Name; Modified Polyamide Epoxy Curing Agent			
<b>SECTION 2:</b>	<b>COMPOSITION</b>			
		<u>CAS NO. /</u>	<u>PERCENT /</u>	<u>OSHA STEL /</u> <u>ACGIH TWA</u>
Components:	Polyamide resin	CAS 68082-29-3	> 38% < 55 %	N/E N/E
	DETA	CAS 111-40--0	< 5 %	4 mg/m3 1 ppm
	Proprietary Mixed Amines		< 20 %	N/E N/E
	Benzyl Alcohol	CAS 100-51-6	12 to 15 %	N/E N/E
	Phenol	CAS 108-95-2	< 22%	19 mg/m3 5 ppm
	Non Hazardous Mineral Fillers and additives		> 6% < 12%	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:	Amber Paste 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 will cause irritation and possible permanent damage.			
<b>SECTION 4:</b>	<b>PHYSICAL / CHEMICAL CHARACTERISTICS</b>			
Boiling Point:	> 177 C (350 F)	Specific Gravity (Water = 1):	1.04	
Vapor Pressure (mm Hg):	3 mm Hg @ 21 C	Melting Point:	N/A	
Vapor Density (Air = 1):	N/A	Evaporation Rate: (Butyl Acetate = 1)	N/A	
Solubility in Water:	slight	Appearance and Odor:	Amber Paste, Ammonia like odor	
Ph	alkaline			
<b>SECTION 5:</b>	<b>FIRE AND EXPLOSION HAZARD DATA</b>			
Flash Point & Method Used:	117 C (243 F) PMCC	Extinguishing Media:	Foam, water CO2, or dry chemical	
Flammable Limits: (LEL & UEL)	No data on Limits	Fire Class B type		
Special Fire Fighting Procedures:	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, Nitrogen oxides and Ammonia gas. Contact with this material will cause skin and eye irritation. Cool any undamaged or unexploded drums with water spray			
Unusual Fire and Explosion Hazards:	The pyloric 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 nitric acid or nitrates, peroxides or reactive metals
Hazardous Polymerization:	(May or Will Not Occur) May occur after contact with Epoxy resins.
Conditions to Avoid:	Temperatures over 100 C (212 F), and contact with other highly reactive substances.
<b>SECTION 7:</b>	<b>HEALTH HAZARD DATA</b>
Inhalation:	May cause respiratory tract distress and dryness
Eye Contact:	Will cause eye irritation and damage, flush with water and seek proper medical attention.
Skin Contact:	Strong skin irritant which may cause rash or skin irritation, material may also be absorbed through the skin and cause nausea and headache, avoid prolonged exposure,
Ingestion:	Will be irritating to the digestive tract, Seek prompt medical attention,
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, oxygen may be administered by proper authorities. If material has been aspirated into the lungs seek immediate medical attention.
Eye Contact:	Wash with fresh water, seek prompt medical attention for any prolonged irritation.
Skin Contact:	Avoid excessive 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 vomit into the lungs.
Over Exposure:	Treat for symptoms, no known chronic health hazards other than sensitization to repeated exposure.
<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):	Supplied Air positive pressure devices are necessary in confined spaces and during any large spill clean up. For work or small spills use activated charcoal type mask.
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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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

Date Prepared: 04/03 Prepared By: RD

<b>SECTION 1:</b>	<b>MATERIAL IDENTIFICATION</b>		
Product Identity:	Infragard Base Resin EM 143 A Infrastructure Repair systems Inc.		
Shipping Name:	Not DOT regulated                      HMIS code Health 2, Fire 1, Reactivity 0 Common Name; Liquid Epoxy Resin Solution		
<b>SECTION 2:</b>	<b>COMPOSITION</b>		
	/ CAS NO. / PERCENT / OSHA PEL / ACGIH TL		
Components:	Bisphenol A based Epoxy resin		
	CAS 25068-38-6	< 60 %	N/E      N/E
	Alkyl Glycidyl Ether      CAS 68609-97-2	< 12%	N/E      N/E
	Glycidyl Ether of 3 Alkyl Phenol      CAS 171263-25-5	< 10%	
	Non Hazardous mineral fillers and pigments	> 20 %	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:	White paste 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):	1.15
Vapor Pressure (mm Hg):	<1	Melting Point:	N/A
Vapor Density (Air = 1):	>1	Evaporation Rate: (Butyl Acetate = 1)	N/A
Solubility in Water:	none	Appearance and Odor:	White paste, slight odor
<b>SECTION 5:</b>	<b>FIRE AND EXPLOSION HAZARD DATA</b>		
Flash Point & Method Used:	150C (305 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 damaged or unexploded drums with water spray.		
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 or Will Not Occur) 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 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, avoid prolonged exposure, wash affected area thoroughly 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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