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

Date Prepared: 09/08 Prepared By: RD

SECTION 1: MATERIAL IDENTIFICATION

Product Identity: Chim Coat EM 147 A side (Resin)

Shipping Name: Paste like Epoxy Resin, Not DOT regulated

Intended Use: Adhesive
HMIS code Health 1, Fire 1, Reactivity 1

SECTION 2: COMPOSITION

Components:

	/ CAS NO.	/ PERCENT	/ OSHA PEL	/ ACGIH TL
Bisphenol A based Epoxy resin	CAS 25085-99-8	> 40	N/E	N/E
Proprietary Resin Blend		> 30%	N/E	N/E
Aliphatic Gylcidyl ether	68609-97-2	< 10 %	N/E	N/E
Non Hazardous Mineral Fillers and additives		< 10 %	N/E	N/E

(All of the above components are contained in the TSCA chemical inventory.)

SECTION 3: EMERGENCY OVERVIEW

Emergency Overview: Paste like material which may burn if preheated, prolonged exposure may cause skin and eye irritation but is not an immediate health hazard during emergencies.

SECTION 4: PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	N/A	Specific Gravity	1.1
Vapor Press. (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:	Paste, slight odor

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point & Method Used:	> 200 C (390 F) PMCC	Extinguishing Media:	Water, Foam, CO2, Dry chemical

Flammable Limits: (LEL & UEL) LEL Unknown UEL Unknown Autoignition Temp. Unknown

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.

Unusual Fire and Explosion Hazards: The pyrolytic (burning) decomposition products of this resin should be treated as potentially hazardous substances and appropriate precautions taken.

SECTION 6:	REACTIVITY DATA
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.
SECTION 7:	**HEALTH HAZARD DATA**
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.
Exposure: Symptoms	Light headedness, Skin rash, or eye irritation.
Carcinogenicity Class:	No known carcinogenic properties
SECTION 8:	**FIRST AID MEASURES**
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.
SECTION 9:	**HANDLING AND STORAGE**
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 and not directly on concrete.
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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Company Identification: Fiberglass Coatings, Inc.
Emergency Telephone Number: Chem-Tel: 800-255-3924

Date Prepared: 02/09 Prepared By: RD

SECTION 1: MATERIAL IDENTIFICATION

Product Identity: Chim Coat EM 147 B side (Activator)

Shipping Name: Paste Polyamide Type Epoxy Curing Agent
Non Corrosive, Not DOT regulated
HMIS code; Health 2, Fire 1, Reactivity 0

SECTION 2: COMPOSITION

Components:	/ CAS NO.	/ PERCENT	/ OSHA PEL	/ ACGIH TL
Polyamide resins	CAS 68911-25-1	> 55 % < 65 %	N/E	N/E
Mixed Cycloaliphatic amines	Proprietary	> 20 % < 35%	N/E	N/E
Nonylphenol	CAS 25154-52-3	<5%	N/E	N/E
Benzyl Alcohol	CAS 100-51-6	< 5%	N/E	N/E
Non Hazardous Mineral Fillers		< 12 %	N/A	N/A

(All of the above components are contained in the TSCA chemical inventory.)

SECTION 3: EMERGENCY OVERVIEW

Emergency Overview: Dark Gray Paste which will burn if preheated giving off hazardous smoke which may include CO, CO2, Mixed hydrocarbons, Nitrogen oxide gases and Ammonia gas. Nitrogen oxides and ammonia gas exposed to water can form nitric acids in some situations. Concentrated fumes may be irritating to the lungs, exposure of the material to the skin or eyes will cause irritation and possible permanent damage.

SECTION 4: PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	> 221 C (429 F)	Specific Gravity (Water = 1):	.95
Vapor Pressure (mm Hg):	3.6 mm Hg @ 21 C	Melting Point:	N/A
Vapor Density (Air = 1):	N/A	Evaporation Rate: (Butyl Acetate = 1)	N/A
Solubility in Water:	Very soluble	Appearance and Odor:	Amber syrup, Ammonia like odor
Ph	alkaline		

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point & Method Used:	93C (200 F) PMCC	Extinguishing Media:	Foam, water, CO2, or dry chemical
Flammable Limits: (LEL & UEL)	No data 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.

Unusual Fire and Explosion Hazards: The pyloric decomposition products of this resin should be treated as potentially hazardous substances and appropriate precautions taken.

SECTION 6:	**REACTIVITY DATA**
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 93C (200F), and contact with other highly reactive substances.
SECTION 7:	**HEALTH HAZARD DATA**
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:	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
Carcinogencity Class:	No known carcinogenic properties
SECTION 8:	**FIRST AID MEASURES**
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 then sensitization to repeated exposure.
SECTION 9:	**HANDLING AND STORAGE**
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.