

## Material Safety Data Sheet

Revision Date: 05/12  
Version 2.0

Print Date: 08/28/12  
MSDS Identification: Fibercoat - Part B

Epoxy Curing Agent

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Fibercoat - Part B

Product Use Description : Epoxy Curing Agent

Company : Protective Floorings and Linings  
A Division of Milamar Coatings, LLC  
311 N.W. 122nd St, Suite 100  
Oklahoma City, OK 73114

Telephone : 405-755-8448

Emergency Telephone Number: ChemTel 800-255-3924 or 813-248-0585 (International)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Isophoronediamine (IPD)	2855-13-2	< 36 %
Benzyl Alcohol	100-51-6	< 30 %

Chemical Family: Cycloaliphatic Amine

### 3. HAZARDS INFORMATION

#### Emergency Overview

Harmful if swallowed.  
Corrosive.  
Keep away from heat and sources of ignition.  
Severe respiratory irritant.  
Severe skin irritant.  
Severe eye irritant.  
May cause sensitization by skin contact.

#### Potential Health Effects

Inhalation : Inhalation of aerosol may cause irritation to the upper respiratory tract. Can cause severe eye, skin and respiratory tract burns. May cause nose, throat, and lung irritation of respiratory system.

Eye Contact : Causes eye burns. May cause blindness. Severe eye irritation

Skin Contact : Causes skin burns.

Ingestion : Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well

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as a danger of perforation of the esophagus and the stomach.

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Prolonged contact may result in chemical burns and permanent damage. Repeated or prolonged contact causes sensitization, asthma and eczemas.

## Exposure Guidelines

Target Organs : Skin.  
Eyes  
Respiratory system.

Symptoms : Repeated and / or prolonged exposure to low concentrations of vapor may cause: G12F  
Sore throat.

Aggravated Medical Condition : Eye disease, skin disorders and allergies. Adverse skin effects (such as rash, irritation or corrosion). Adverse eye effects (such as conjunctivitis or corneal damage). Asthma. Adverse respiratory effects (such as cough, tightness of chest or shortness of breath).

## 4. FIRST AID MEASURES

General Advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be initiated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.

Eye Contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.

Skin Contact : Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Wash off immediately with plenty of water for at least 20 minutes. Cover wound with sterile dressing. Take off contaminated clothing and shoes immediately. NOTE TO PHYSICIANS: Application of corticosteroid cream has been effective in treating skin irritation.

Ingestion : If a person vomits when lying on his/her back, place in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation : If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be initiated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

## 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Alcohol-resistant foam.  
Carbon Dioxide (CO2).  
Dry Chemical.  
Dry Sand.  
Limestone Powder.

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Specific Hazards	:	May generate ammonia gas. May generate toxic nitrogen oxide gases. Incomplete combustion may form carbon monoxide. Down wind personnel must be evacuated. Burning produces obnoxious and toxic fumes.
Special Protective Equipment For Fire Fighters	:	Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
Further information	:	Do not allow run-off from fire fighting to enter drains or water courses

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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	:	Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye / face protection. Evacuate personnel to safe areas.
Environmental Precautions	:	Construct a dike to prevent spreading.
Methods For Clean-Up	:	Contact Protective Floorings and Linings for advice. Place in appropriate chemical waste container.
Additional Advice	:	If possible, stop flow of product.

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## 7. HANDLING AND STORAGE

Handling	:	Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.
Storage	:	Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.
Technical Measures / Precautions	:	Do not store in reactive metal containers.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	:	Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation, to ensure concentrations are kept below exposure limits.
Personal Protective Equipment		
Respiratory Protection	:	Wear appropriate respirator when ventilation is inadequate
Hand Protection	:	Neoprene gloves. Butyl-rubber gloves.

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Nitrile Rubber.  
Impervious Gloves.  
The breakthrough time of the selected glove(s) must be greater than the intended use period.

Eye Protection : Full face shield with goggles underneath.  
Chemical resistant goggles must be worn.

Skin And Body Protection : Slicker Suit.  
Impervious clothing.  
Full Rubber Suit (rain gear).  
Rubber or Plastic Boots.  
Long sleeve shirts and trousers without cuffs.

Environmental Exposure Controls :  
Construct a dike to prevent spreading.

Special Instructions For Protection And Hygiene :  
Discard contaminated leather articles. Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Color : Yellow

Odor : Amine-like.

Relative Density : 1.02 (water = 1)

Vapor Pressure : 2.00 mmHg

Density : 63.677 lb/ft<sup>3</sup> (1.02g/cm<sup>3</sup>) at 70 degrees F (21 degrees C)

pH : Alkaline

Boiling Point / Range : 400 degrees F (204.4 degrees C)

Flash Point : 230 degrees F (110 degrees C)

Water solubility : Slightly Soluble.

## 10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Materials To Avoid : Organic acids (i.e. acetic acid, citric acid etc.).  
Mineral Acids.

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Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.  
Amines.  
Incompatible with bases.  
Reducing Agents.  
Reactive metals (e.g. sodium, calcium, zinc etc.).  
Materials reactive with hydroxyl compounds.  
Oxidizing agents.

Hazardous Decomposition Products : Organic acid vapors.  
Nitric Acid.  
Ammonia.  
Nitrogen oxides (NOx).  
Nitrogen oxide can react with water vapors to form corrosive nitric acid.  
Carbon Monoxide.  
Carbon Dioxide (CO2).  
Aldehydes.

## 11. TOXICOLOGICAL INFORMATION

### Acute Health Hazard

Ingestion : LD 50: >1,000 mg/kg  
Species: Rat  
Method: Estimated

Inhalation : No data is available on the product itself.

Skin : LD50 : > 2,800 mg/kg  
Species : Rabbit  
Method : Estimated

Eye Irritation / Corrosion : Severe eye irritation.

Acute Dermal Irritation / Corrosion : Severe skin irritation.

Sensitization : May cause sensitization by skin contact.

Chronic Health Hazard : A component has been shown to cause reproductive / teratogenic effects in laboratory animals. A component has been shown to cause reproductive / teratogenic effects in laboratory animals.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity Effects

Aquatic Toxicity : No data is available on the product itself.

Toxicity To Fish - Components

Benzyl Alcohol : LC50(96 h):10mg/l Species: Bluegill sunfish (Iepomis macrochirus).

Benzyl Alcohol : LC50(96 h):460mg/l Species: Fathead minnow (Pimephales promelas)

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## Toxicity To Algae - Components

Benzyl Alcohol : IC50(72 h):700mg/l Species: Algae

Toxicity To Other Organisms : No data available.

## Persistence And Degradability

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

## Bioaccumulation - Components

Benzyl Alcohol : Low bioaccumulation potential.

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.

Contaminated Packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

## 14. TRANSPORT INFORMATION

### CFR

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Isophoronediamine (ipd), Alkylphenol)  
Class : 8  
UN / ID No. : UN2735  
Packing Group : III

### IATA

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Isophoronediamine (ipd), Alkylphenol)  
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### IMDG

Proper Shipping Name : AMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine (ipd), Alkylphenol)  
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### CTC

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## 15. REGULATORY INFORMATION

OSHA Hazard Communication Standard : Corrosive. Sensitizer.  
(29 CFR 1910.1200) Hazard Class(es)

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory
Australia	AICS	Included on Inventory
Japan	ENCS	Included on Inventory
South Korea	ECL	Included on Inventory
China	SEPA	Included on Inventory
Philippines	PICCS	Included on Inventory

EPA SARA Title III Section 312 (40 CFR 370) Hazard Communication: Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65):

This product does not contain any chemical known to the State of California to cause cancer, birth defects or any other harm.

WHMIS Hazard Classification: Toxic Material Causing Other Toxic Effects, Corrosive Material.

## 16. OTHER INFORMATION

HMIS Rating

Health : 3  
Flammability : 1  
Physical Hazard : 0

Prepared By : Protective Floorings and Linings. EH&S Product Safety Department