

Revision Date: 8/12 Print Date: 08/27/12

Version 3.0 MSDS Identification: 1000CS - Part B Epoxy Curing Agent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : 1000CS - 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

Hazardous Ingredients 1 % Wt. CAS No. EC No. Symbol R-phrases Benzyl Alcohol 30-40 Xn 100-51-6 202-859-9 20/22 C Benze-1,3-dimethaneamine (MXDA) 3-7 2855-13-2 220-666-8 21/22-34-43-52/53

3. HAZARDS INFORMATION

Emergency Overview

Harmful if swallowed.

Corrosive.

Keep away from heat and sources of ignition.

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.

Eye Contact : Product vapor in low concentrations can cause lacrimation, conjuctivitis and

corneal edema when absorbed into the tissue of the eye from the atmosphere. Corneal edema can cause the perception of "blue haze" or "fog" around lights, although this is a temporary effect and has no known residual effect. 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

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

Revision Date: Version 3.0

8/12

Print Date:

MSDS Identification:

08/27/12

1000CS - Part B

Epoxy Curing Agent

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

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).

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

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

Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation

Move to fresh air.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol-resistant foam.

Carbon Dioxide (CO2).

Dry Chemical. Dry Sand.

Limestone Powder.

Specific Hazards

May generate ammonia gas. May generate toxic nitrogen oxide gases.

Incomplete combustion may form carbon monoxide. Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen. (NOx) is to be expected. Downwind personnel

must be evacuated. Burning produces obnoxious and toxic fumes.

Special Protective Equipment For Fire Fighter:

Avoid contact with the skin. A face shield should be worn. Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if

Revision Date: Version 3.0

8/12

Print Date:

MSDS Identification:

08/27/12

1000CS - Part B Epoxy Curing Agent

necessary.

Further information : Do not allow run-off from fire fighting to enter drains or water courses.

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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures : Provide readily accessible eye wash stations and safety showers. Provide natural

or explosion-proof ventilation, adequate to ensure concentrations are kept below

exposure limits.

Personal Protective Equipment

Respiratory Protection : Not required for properly ventilated areas.

Hand Protection : Neoprene gloves.

PVC Disposable Gloves. Butyl-rubber gloves. 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.

Revision Date:

8/12

Print Date:

08/27/12

Version 3.0

MSDS Identification:

1000CS - Part B Epoxy Curing Agent

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.

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.

Exposure Limit(s)

	Ceiling Limit Value: ACGIH	Ceiling Limit Value and Time Period (if specified): NIOSH
Benzene-1,3-dimethaneamine (MXDA)	0.1 mg/m3	0.1 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid.

Color : Colorless.

Relative Density : 1.04 (water = 1).

Density : 64.925 lb/ft3 (1.04g/cm3) at 70 degrees (21 degrees C).

pH : Alkaline.

Boiling Point / Range : > 392 degrees F (200 degrees C).

Flash Point : 230 degrees F (110 degrees C).

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

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

Mineral Acids.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds.

Oxidizing agents.

Hazardous Decomposition Products : In case of fire hazardous decomposition products may be produced such as:

Carbon Monoxide.
Carbon Dioxide (CO2).

Nitric Acid. Ammonia.

Revision Date: Version 3.0

8/12

Print Date:

MSDS Identification:

08/27/12

1000CS - Part B Epoxy Curing Agent

Nitrogen oxides (NOx).

Nitrogen oxide can react with water vapors to form corrosive nitric acid.

Aldehydes.

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion : LD 50: >1,752 mg/kg

Species: Rat Method: Estimated

Inhalation : No data is available on the product itself.

Skin : No data is available on the product itself.

Eye Irritation / Corrosion : Severe eye irritation.

Acute Dermal Irritation / Corrosion : Severe skin irritation.

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 (lepomis macrochirus).

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

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 quidance is required.

Revision Date: 8/12 Print Date: 08/27/12

Version 3.0 MSDS Identification: 1000CS - Part B Epoxy Curing Agent

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. (Benzene-1,3-dimethaneamine (mxda)/cycloaliphatic amine)

 Class
 :
 8

 UN / ID No.
 :
 UN2735

 Packing Group
 :
 III

IATA

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine (mxda)/cycloaliphatic amine)

 Class
 :
 8

 UN / ID No.
 :
 UN2735

 Packing Group
 :
 III

IMDG

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine (mxda)/cycloaliphatic amine)

Class : 8

UN / ID No. : UN2735 Packing Group : III

CTC

Proper Shipping Name : Amines, liquid, corrosive, n.o.s. (Benzene-1,3-dimethaneamine (mxda)/cycloaliphatic amine)

 Class
 :
 8

 UN / ID No.
 :
 UN2735

 Packing Group
 :
 III

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es)

Corrosive. Sensitizer.

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	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.

Revision Date:

8/12

Print Date:

Version 3.0 MSDS Identification:

08/27/12 1000CS - Part B

B Epoxy Curing Agent

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

WHMIS Trade Secret Registry Number(s): 5027 Filing Date 03/27/2001.

Canadian Classification : E: Corrosive materials; D2B: Toxic materials causing other effects

Risk Phrase(s) : Causes severe burns. Harmful by inhalation, in contact with skin and if

swallowed. May cause sesitisation by skin contact

Precautionary and First Aid

Measure(s)

Wear suitable prtective clothing, gloves and eye/face protection. Use only in well ventilated areas. In case of contact with eyes, rinse immediately with

plenty of water and seek medical adivce. After contact with skin, wash immediately with plenty of water. In case of accident or if you fell unwell, seek medical adivce

immediately (show the label where possible).

ininiculately (show the label where poss

Other Information : DSL; Not on inventory.

16. OTHER INFORMATION

HMIS Rating

Health : 3 Flammability : 1 Physical Hazard : 1

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

1 Classified according to: *29 CFR 1910,1200,1915,1916,1917

*Mass, right-to-know law(ch. 40,M.G.L..O 111F)

*Canadian WHMIS regulations

*67/548/EEC(29th Adaption) and 99/45EC

*Worksafe Austialia (NOHSC: 1008(1999))