FLOORINGS & LININGS A DIVISION OF MILAMAR COATINGS, L.L.C.

Material Safety Data Sheet

Revision Date:	08/12	Print Date:	08/21/12	
Version 2.0		MSDS Identification:	3100CR Part B	Epoxy Curing Agent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name :		3300CT - 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)
Benzyl Alcohol	100-51-6	< 45 %
Benzene-1,3-dimethaneamine (MXDA)	1477-55-0	< 20%

Chemical Family: Aliphatic Amine

3. HAZARDS INFORMATION

Emergency O	verview								
	Harmful if swallowed.								
	Corrosive.								
	Keep away from heat and sources of ignition.								
	Severe respiratory irritar	nt.							
	Severe skin irritant.								
	Severe eye irritant.								
	May cause sensitization	ı by skin cont	tact.						
Potential Heal	Ith Effects								
	Inhalation	:	Inhalation of aerosol may cause irritation to the upper respiratory tract. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Can cause severe eye, skin and respiratory tract burns. Inhalation of vapors in high concentration may cause irritation of respiratory system.						
	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.						

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	§	Skin Contact	:	Causes skin burns.	
	lı	ngestion	:		sted, severe burns of the mouth and throat, as well the esophagus and the stomach.
	C	Chronic Health	Hazard :	and/or OSHA in concentratio	ed carcinogens according to IARC, ACGIH, NTP ns of 0.1 percent or greater. Prolonged contact and permanent damage. Repeated or prolonged asthma and eczemas.
	Exposure Guideli T	ines Target Organs	:	Respiratory system. Skin. Eyes.	
	Aggravated Medi	cal Condition	:	of breath. Eye disease, Skin	effects (such as cough, tightness of chest or shortness disorders and Allergies. Adverse skin effects (such as Adverse eye effects (such as conjunctivitis or corneal
. FIRST AI	D MEASURES				
	General Advice		:	respirations. Supplemental of	thing has stopped or is labored, give assisted xygen may be initiated. If the heart has stopped, in cardiopulmonary resuscitation immediately.
	Eye Contact		:	Rinse immediately with plent minutes. Remove contact le	y of water also under the eyelids for at least 20
	Eye Contact Skin Contact		:	minutes. Remove contact ler Immediately remove contami possible to do so without dela least 20 minutes. Cover wo clothing and shoes immediat	y of water also under the eyelids for at least 20
			: : :	minutes. Remove contact least Immediately remove contami possible to do so without dela least 20 minutes. Cover wo clothing and shoes immediat corticosteroid cream has bee If a person vomits when lying	y of water also under the eyelids for at least 20 nses. nated clothing, and any extraneous chemical, if ay. Wash off immediately with plenty of water for at und with sterile dressing. Take off contaminated ely. NOTE TO PHYSICIANS: Application of

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.

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					liberated at high temperatures. Ir formation of oxides of nitrogen. (carbon monoxide. Ammonia gas may be n case of incomplete combustion an increased NOx) is to be expected. Downwind personnel duces obnoxious and toxic fumes.
	Special Protective Ec	quipment Fo	or Fire Fighters			ce shield should be worn. Use personal contained breathing apparatus for fire fighting if
	Further information			:	Do not allow run-off from fire fight	ing to enter drains or water courses.
6. ACCIDEN	TAL RELEASE MI	EASURES	6			
	Personal Precautions	S				aratus and chemically protective clothing. gloves and eye / face protection. Evacuate
	Environmental Preca	autions		:	Construct a dike to prevent sprea	ding.
	Methods For Clean-L	Jp			Contact Protective Floorings and appropriate chemical waste conta	
	Additional Advice			:	If possible, stop flow of product.	
7. HANDLING	G AND STORAGE	1				
	Handling				be readily accessible. Adhere to	Emergency showers and eye wash stations should work practice rules established by government yes. Use personal protective equipment. When
	Storage				Do not store near acids. Keep co ventilated place.	ontainers tightly closed in a dry, cool and well-
	Technical Measures	/ Precaution	IS	:	Do not store in reactive metal cor	itainers.
8. EXPOSUF	RE CONTROLS / F	PERSONA	AL PROTEC	TION		
	Engineering Measure	es				ash stations and safety showers. Provide natural equate to ensure concentrations are kept below
	Personal Protective Rest	Equipment piratory Prot	tection	:	Wear appropriate respirator wher	n ventilation is inadequate.
	Hand	d Protection			Neoprene gloves. PVC Disposable Gloves.	

Nitrile Rubber.

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			Impervious Gloves. The breakthrough time of the s use period.	selected glove(s) must be greater than the intended
	Eye Protection	:	Full face shield with goggles u Chemical resistant goggles mu	
	Skin And Body	Protection :	Slicker Suit. Impervious Clothing. Full Rubber Suit (rain gear). Rubber or Plastic Boots. Long sleeve shirts and trouser	rs without cuffs.
	Environmental	Exposure Controls :	Construct a dike to prevent sp	reading.
	Special Instruct Protection And			articles. Provide readily accessible eye wash Wash at the end of each work shift and before bilet.

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	:	Light Yellow.
Odor	:	Amine-like.
Relative Density	:	1.1 (water = 1).
Density	:	68.671 lb/ft3 (1.04g/cm3) at 70 degrees (21 degrees C).
pH	:	> 11.
Boiling Point / Range	:	225 degrees F (107.22 degrees C).
Flash Point	:	> 235 degrees F (112.78 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. Reactive metals (e.g. sodium, calcium, zinc etc.).

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			erials reactive with hydrox dizing agents.	kyl compounds.
Hazardous Decom	nposition Pro	oducts		
In case of fire haza	ardous deco	Car Nitr Nitr Am	bon Monoxide. bon Dioxide (CO2). ogen oxides (NOx).	water vapors to form corrosive nitric acid.

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion	:	LD 50: >1,230 mg/kg Species: Rat
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.
Skin Sensitization	:	May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

	Aquatic Toxicity	:	No data is available on the product itself.	
	Toxicity To Fish - Components Benzyl Alcohol Benzyl Alcohol	:	LC50(96 h):10mg/l Species: Bluegill sunfish (lepomis macrochirus). LC50(96 h):460mg/l Species: Fathead minnow (pimephales promelas).	
	Toxicity To Algae - Component Benzyl Alcohol	s :	IC50(72 h):700mg/I 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.	

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		Bioaccumulatic Benzyl Alcohol	n - Components :	Low bioaccumulation potential.		
13. DISPOSA	L CONSIDE	RATIONS				
	Waste from res	idues / unused p	products :	Contact supplier if guidance is re	quired.	
	Contaminated I	Packaging	:	Dispose of container and unused local requirements.	l contents in accordance with federal, state, and	
14. TRANSPO	14. TRANSPORT INFORMATION					
	CFR	Proper Shippin Class UN / ID No. Packing Group	:	Amines, liquid, corrosive, n.o.s. (8 UN2735 III	Benzene-1,3-dimethaneamine (mxda))	
	ΙΑΤΑ	Proper Shippin Class UN / ID No. Packing Group	:	Amines, liquid, corrosive, n.o.s. (8 UN2735 III	Benzene-1,3-dimethaneamine (mxda))	
	IMDG	Proper Shippin Class UN / ID No. Packing Group	:	AMINES, LIQUID, CORROSIVE, 8 UN2735 III	N.O.S. (Benzene-1,3-dimethaneamine(mxda))	
	СТС	Proper Shippin Class UN / ID No. Packing Group	:	AMINES, LIQUID, CORROSIVE, 8 UN2735 III	N.O.S. (Benzene-1,3-dimethaneamine(mxda))	

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 EINECS inventory or polymer substance,
		monomers included on EINECS inventory or no
		longer polymer.
Canada	DSL	Not on Inventory. Notifications have been submitted
		to Environment Canada.
Australia	AICS	Included on Inventory

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Japan	ENCS	Included on Inventory
South Korea	ECL	Included on Inventory
China	SEPA	Not on Inventory.
Philippines	PICCS	Not 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	:	1
Prepared By		:	Protective Floorings and Linings. EH&S Product Safety Department