PROJECTIVE 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:	3400CT - Part B	Epoxy Curing Agent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	3400CT - 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 irritant.							
	Severe skin irritant.							
	Severe eye irritant.							
	May cause sensitization by s	kin cont	tact.					
Potential Heal	th 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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	S	kin Contact	:	Causes skin burns.	
	In	gestion	:		ested, severe burns of the mouth and throat, as well of the esophagus and the stomach.
	C	hronic Health	Hazard :	and/or OSHA in concentrat	ted carcinogens according to IARC, ACGIH, NTP ions of 0.1 percent or greater. Prolonged contact is and permanent damage. Repeated or prolonged n, asthma and eczemas.
	Exposure Guidelin				
	Ta	arget Organs	:	Respiratory system. Skin. Eyes.	
	Aggravated Medic	al Condition	:	of breath. Eye disease, Sk	ry effects (such as cough, tightness of chest or shortness in disorders and Allergies. Adverse skin effects (such as . Adverse eye effects (such as conjunctivitis or corneal
				damage).	
. FIRST AI	D MEASURES			,	
. FIRST AI	D MEASURES General Advice		:	damage). Seek medical advice. If bro respirations. Supplementa	eathing has stopped or is labored, give assisted oxygen may be initiated. If the heart has stopped, egin cardiopulmonary resuscitation immediately.
. FIRST AI			:	damage). Seek medical advice. If bro respirations. Supplementa trained personnel should bro	eathing has stopped or is labored, give assisted oxygen may be initiated. If the heart has stopped, egin cardiopulmonary resuscitation immediately. nty of water also under the eyelids for at least 20
I. FIRST AI	General Advice		: : :	damage). Seek medical advice. If bro respirations. Supplementa trained personnel should bo Rinse immediately with ple minutes. Remove contact Immediately remove contact Immediately remove contact least 20 minutes. Cover w clothing and shoes immedi	eathing has stopped or is labored, give assisted oxygen may be initiated. If the heart has stopped, egin cardiopulmonary resuscitation immediately. nty of water also under the eyelids for at least 20
. FIRST AI	General Advice Eye Contact		: : : :	damage). Seek medical advice. If brown respirations. Supplemental trained personnel should be Rinse immediately with ple minutes. Remove contact Immediately remove contact Immediately remove contact Immediately remove contact least 20 minutes. Cover w clothing and shoes immedi corticosteroid cream has be If a person vomits when lyin	eathing has stopped or is labored, give assisted oxygen may be initiated. If the heart has stopped, egin cardiopulmonary resuscitation immediately. hty of water also under the eyelids for at least 20 enses. ninated clothing, and any extraneous chemical, if elay. Wash off immediately with plenty of water for at ound with sterile dressing. Take off contaminated ately. NOTE TO PHYSICIANS: Application of

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 gas

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			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 Fighte		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.
6. ACCIDEN	TAL 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. HANDLIN	G 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	:	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. EXPOSUF	RE CONTROLS / PERSONAL PROTE	CTION	
	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	:	Wear appropriate respirator when ventilation is inadequate.
	Hand Protection	:	Neoprene gloves.

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			Impervious Gloves. The breakthrough time of the s use period.	elected glove(s) must be greater than the intended
	Eye Protection	:	Full face shield with goggles ur 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 trousers	s without cuffs.
	Environmental	Exposure Controls :	Construct a dike to prevent spr	reading.
	Special Instruct Protection And			articles. Provide readily accessible eye wash Nash at the end of each work shift and before ilet.

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.	yl 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 - (Benzyl Alcohol Benzyl Alcohol	Components	LC50(96 h):10mg/l Species: Bluegill sunfish (lepomis macrochirus). LC50(96 h):460mg/l Species: Fathead minnow (pimephales promelas).		
Toxicity To Algae - Benzyl Alcohol	Components	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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		Bioaccumulatio Benzyl Alcohol	n - Components :	Low bioaccumulation potential.	
13. DISPOSA	AL CONSIDE	RATIONS			
	Waste from res	idues / unused p	roducts :	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. TRANSP	ORT INFORM	MATION			
	CFR	Proper Shipping Class UN / ID No. Packing Group	g Name : : :	Amines, liquid, corrosive, n.o.s. (8 UN2735 III	Benzene-1,3-dimethaneamine (mxda))
	ΙΑΤΑ	Proper Shipping Class UN / ID No. Packing Group	g Name : : :	Amines, liquid, corrosive, n.o.s. (8 UN2735 III	Benzene-1,3-dimethaneamine (mxda))
	IMDG	Proper Shipping Class UN / ID No. Packing Group	g Name : : :	AMINES, LIQUID, CORROSIVE, 8 UN2735 III	N.O.S. (Benzene-1,3-dimethaneamine(mxda))
	СТС	Proper Shipping Class UN / ID No. Packing Group	g Name : : :	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.

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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