

Revision Date:	25-Sep-12	Print Date:	09/25/12	
Version 2.0		MSDS Identification:	3000 Flex - Part B	Epoxy Curing Agent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	3000 Flex - 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)
Tetraethylenepentamine	112-57-2	< 10 %
Phenol, 4,4'-(1-methylethylidene)bis-	80-05-7	< 10 %

Chemical Family: Amidoamine

3. HAZARDS INFORMATION

Emergency Overview Keep away from heat and sources of ignition. Severe skin irritant. May cause sensitization by skin contact.								
Potential Health Effects								
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	Exposure Guidelines							
Target Organs	:	Skin						
Aggravated Medical Condition	:	Skin disorders and allergies. Adverse skin effects (such as rash, irritation or corrosion).						

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4. FIRST AI	D MEASURES				
	General Advice		:	respirations. Supplemental o	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 plenty minutes. Remove contact ler	y of water also under the eyelids for at least 20 uses.
	Skin Contact			and water. Immediately remo	enty of water for at least 20 minutes. Wash off with soap ove contaminated clothing, and any extraneous chemical, elay. Take off contaminated clothing and shoes SICIANS: Application of corticosteroid cream has been ion.
	Ingestion		:	Prevent aspiration of vomit.	Turn victim's head to the side.
	Inhalation		:	Move to fresh air.	
5. FIRE-FIG	HTING MEASU	RES			
	Suitable Extingui	shing Media		Alcohol-resistant foam. Carbon Dioxide (CO2). Dry Chemical. Dry Sand. Limestone Powder.	
	Specific Hazards			Incomplete combustion may f at high temperatures. In case	May generate toxic nitrogen oxide gases. Form carbon monoxide. Ammonia gas may be liberated e of incomplete combustion an increased formation of be expected. Downwind personnel must be evacuated. and toxic fumes.
	Special Protectiv	e Equipment I	For Fire Fighters :	Use personal protective equip fighting if necessary.	oment. Wear self contained breathing apparatus for fire
6. ACCIDEN	ITAL RELEASE	MEASURE	S		
	Personal Precau	tions	:		apparatus and chemically protective clothing. ing, gloves and eye / face protection. Evacuate

		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	G AND STORA	GE				
	Handling		:	Suspected cancer-causing ni eye wash stations should be	nitrosating agents in formulations containing this product. trosamines could be formed. Emergency showers anc readily accessible. Adhere to work practice rules egulations. Use personal protective equipment. Wher oke.	
	Storage		:	Keep away from alkalis. Do i dry, cool and well-ventilated p	not store near acids. Keep containers tightly closed in a place.	
	Technical Measures / Precautions		ons :	Do not store in reactive metal containers.		
8. EXPOSURE CONTROLS / PERSONAL PROTECTION						
	Engineering Meas	sures	:	3	e wash stations and safety showers. Provide natural , adequate to ensure concentrations are kept below	

Personal Protective Equipment

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	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 intendec use period.
	Eye Protection	:	Chemical Safety Glasses.
	Skin And Body Protection	:	Long sleeve shirts and trousers without cuffs.
	Special Instructions For Protec	tion A	nd 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	:	Amber.
Odor	:	Ammoniacal.
Relative Density	:	1.01 (water = 1)

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	Vapor Pressure		:	2.10 mmHg	
	Density		:	63.052 lb/ft3 (1.01 g/cm3) at 70 d	degrees F (21 degrees C)
	рН		:	Alkaline.	
	Boiling Point / Ra	nge	:	> 392 degrees F (200 degrees C)
	Flash Point		:	> 230 degrees F (110 degrees C)
10. STABILI	TY AND REACT	ΓΙVΙΤΥ			
	Stability		:	Stable under normal conditions.	
	Materials To Avoi	id	:	Reactive metals (e.g. sodium, ca Materials reactive with hydroxyl o CAUTION! N-Nitrosamines, man	aluminum, zinc and galvanized surfaces. Ilcium, zinc etc.). compounds. y of which are known to be potent carcinogens, may nes in contact with nitrous acid, nitrites or atmosphere titions.
	Hazardous decon	nposition proc		Nitric Acid. Ammonia Nitrogen oxides (NOx). Nitrogen oxide can react with wa Carbon Monoxide. Carbon Dioxide (CO2). Aldehydes. Nitrosamine.	ter vapors to form corrosive nitric acid.

11. TOXICOLOGICAL INFORMATION

Acute Health H	azard		
	Ingestion	:	LD 50: >2,000 mg/kg Species: Rat Method : Estimated
	Inhalation	:	No data is available on the product itself.
	Skin	:	LD50 : > 2,000 mg/kg Species : Rabbit Method : Estimated
	Acute Dermal Irritation / Corros	sion :	Severe skin irritation

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12. ECOLOG	12. ECOLOGICAL INFORMATION							
	Ecotoxicity Effe	ects						
		Aquatic Toxicit	у :	No data is available on the proc	duct itself.			
		Toxicity to othe	er organisms :	No data available.				
	Persistence An	d Degradability						
		Mobility	:	No data available.				
		Bioaccumulation	:	No data is available on the prod	duct itself.			
13. DISPOS	AL CONSIDEI	RATIONS						
	Waste from res	idues / unused	products :	Contact supplier if guidance is	required.			
	Contaminated F	Packaging	:	Dispose of container and unuse local requirements.	ed contents in accordance with federal, state, and			
14. TRANSP	14. TRANSPORT INFORMATION							
	CFR		:	not regulated				
	ΙΑΤΑ		:	not regulated				
	IMDG		:	not regulated				
	СТС		:	not regulated				

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard : Irritant. 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	Not on Inventory.
South Korea	ECL	Not on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

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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: Phenol, 4,4"-(1-methylidene)bis-

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

16. OTHER INFORMATION

HMIS Rating

	Health Flammability Physical Hazard	:	2 1 0
Prepared By		:	Protective Floorings and Linings, EH&S Product Safety Department