

Revision Date:	25-Sep-12	Print Date:	06/06/13	
Version 2.0		MSDS Identification:	3000CR Flex - Part B	Epoxy Curing Agent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	3000CR 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			
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 AID	MEASURES						
	General Advice			respirations. Supplemental ox	ning has stopped or is labored, give assisted ygen may be initiated. If the heart has stopped, 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			and water. Immediately removing possible to do so without dela	nty of water for at least 20 minutes. Wash off with soap ve contaminated clothing, and any extraneous chemical, ay. Take off contaminated clothing and shoes SICIANS: Application of corticosteroid cream has been on.		
	Ingestion		:	Prevent aspiration of vomit. To	urn victim's head to the side.		
	Inhalation		:	Move to fresh air.			
5. FIRE-FIGH	ITING MEASU	RES					
	Suitable Extinguis	shing Media		Alcohol-resistant foam. Carbon Dioxide (CO2). Dry Chemical. Dry Sand. Limestone Powder.			
	Specific Hazards			Incomplete combustion may for at high temperatures. In case	May generate toxic nitrogen oxide gases. orm carbon monoxide. Ammonia gas may be liberated of incomplete combustion an increased formation of be expected. Downwind personnel must be evacuated. nd toxic fumes.		
	Special Protective	e Equipment F		Use personal protective equipr fighting if necessary.	nent. Wear self contained breathing apparatus for fire		
5. ACCIDENT	AL RELEASE	MEASURE	S				
	Personal Precauti	ions	:	Use self-contained breathing a	pparatus and chemically protective clothing.		

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.

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,	Additional Advic	e	:	If possible, stop flow of product.	
7. HANDLING	AND STOR	AGE			
ł	Handling		:	Suspected cancer-causing nitrosa eye wash stations should be read	sating agents in formulations containing this product. amines could be formed. Emergency showers and tily accessible. Adhere to work practice rules ations. Use personal protective equipment. When
	Storage		:	Keep away from alkalis. Do not s dry, cool and well-ventilated place	store near acids. Keep containers tightly closed in a e.
1	Technical Meas	ures / Precautio	ns :	Do not store in reactive metal cor	ntainers.
8. EXPOSURI	E CONTROL	S / PERSON	AL PROTECTION		
E	Engineering Me	asures	:		ash stations and safety showers. Provide natural equate to ensure concentrations are kept below
F	Personal Protec	tive Equipment			
		Respiratory Pro	tection :	Not required for properly ventilate	ed areas.
		Hand Protection	ı :	Neoprene gloves. PVC disposable gloves. Butyl-rubber gloves. Nitrile Rubber. Impervious Gloves. The breakthrough time of the sele use period.	ected glove(s) must be greater than the intended
		Eye Protection	:	Chemical Safety Glasses.	
		Skin And Body	Protection :	Long sleeve shirts and trousers w	vithout cuffs.
		Special Instruct	ions For Protection A	Discard contaminated leather arti	cles. Provide readily accessible eye wash ish at the end of each work shift and before t.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color

Form

: Liquid.

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(Odor		:	Ammoniacal.	
F	Relative Density		:	1.01 (water = 1)	
N	Vapor Pressure		:	2.10 mmHg	
I	Density		:	63.052 lb/ft3 (1.01 g/cm3) at 7	0 degrees F (21 degrees C).
ţ	рН		:	Alkaline.	
E	Boiling Point / Rar	nge	:	> 392 degrees F (200 degrees	C).
F	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. CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmosphere with high nitrous oxide concentrations. Nitrous Acid and other nitrosating agents. Oxidizing agents.
Hazardous decomposition products	:	Nitric Acid. Ammonia Nitrogen oxides (NOx). Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon Monoxide. Carbon Dioxide (CO2). Aldehydes. Nitrosamine.

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard						
Ingestion	: LD 50: >2,000 mg/kg Species: Rat Method : Estimated					
Inhalation	: No data is available on the product itself.					

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	Skin	:	LD50 : > 2,000 mg/kg Species : Rabbit Method : Estimated			
	Acute Dermal Ir	ritation / Corrosion :	Severe skin irritation			
12. ECOLOGICAL INFORMATION						
Ecotox	icity Effects					
	Aquatic Toxicity	<i>ı</i> :	No data is available on the pro	duct itself.		
	Toxicity to other	r organisms :	No data available.			
Persisi	ence And Degradability					
	Mobility	:	No data available.			
	Bioaccumulation	:	No data is available on the pro	duct itself.		
13. DISPOSAL CO	NSIDERATIONS					
Waste	from residues / unused p	roducts :	Contact supplier if guidance is	required.		
Contar	ninated Packaging	:	Dispose of container and unus local requirements.	ed contents in accordance with federal, state, and		
14. TRANSPORT I	NFORMATION					
CFR		:	not regulated			
IATA		:	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

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		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.	

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 F	Rating
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Prepared By

Protective Floorings and Linings, EH&S Product Safety Department