PRODUCT NAME: **<u>PM-180 ELASTOMERIC EPOXY RESIN, PART A</u>**

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MATERIAL SAFETY DATA SHEET

			~		
24 HOUR EMERGENCY ASSISTANCE			GENERAL ASSISTANCE		
	•TEL: 1-800-255-392			сн: 405-755-8448	
	HEALTH:2HAZARD RATING				
FIRE:		LEAST = 0	SLIGHT = 1 M	IODERATE = 2	
REAC	CTIVITY: 1	HIGH = 3	Extreme = 4		
SECT	ΓΙΟΝ Ι				
PRODUCT: PM-180 ELASTOMERIC EPOXY RESIN, PART A					
CHEMICAL NAME:		MIXTURE			
CHEMICAL FAMILY:		Epoxy			
Prod	UCT DESCRIPTION:	EPOXY RESIN			
SECT	ΓΙΟΝ ΙΙ-Α	PRODUCT / I	NGREDIENT		
No.	COMPOSITION		CAS NUMBER	PERCENT	
1	REACTION PRODUCTS O	F EPICHLOROHYDRIN			
	AND BISPHENOL A		025085-99-8	80-100%	
2	GLYCIDYL NEODECONA	ATE	26761-45-5	1-10%	
SECT	ΓΙΟΝ II-B	ACUTE TOXI	ΙΟΙΤΥ D ΑΤΑ		
<u>No.</u>	ACUTE ORAL LD50	ACUTE DERMAL LD50		ALATION LC50	
1	> 5.0 g/kg	20.0 g/kg (rabbit)	Not availab		
2	9.6 g/kg (rat)	38.0 g/kg (rat)	Not availab	ble	
SECTION III HEALTH INFORMATION					
BECI					
		BELOW ARE CONSISTEN	T WITH REQUIREME	ENTS UNDER THE OSHA	
THE H	IEATH EFFECTS NOTED			ENTS UNDER THE OSHA	
THE H Haza	IEATH EFFECTS NOTED RD COMMUNICATION	BELOW ARE CONSISTEN		ENTS UNDER THE OSHA	
THE H Haza Eye (IEATH EFFECTS NOTEL RD COMMUNICATION CONTACT: IRRIT	BELOW ARE CONSISTEN STANDARD (29 CFR 19 ATING TO THE EYES.	10-1200).	ENTS UNDER THE OSHA	
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PRODUCT NAME: **PM-180 ELASTOMERIC EPOXY RESIN, PART A**

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SECTION V	EMERGENCY AND FIRST AID PROCEDURES				
EYE CONTACT:	REMOVE CONTACT LENSES AT ONCE. IMMEDIATELY FLUSH EYES WITH LARGE				
AMOUNTS OF	WATER OR NORMAL SALINE FOR <u>AT LEAST 30 MINUTES</u> . HOLD EYELIDS APART WHILE				
FLUSHING TO	FLUSHING TO RINSE ENTIRE SURFACE OF EYE AND LIDS WITH WATER.				
SKIN CONTACT:	IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR <u>AT LEAST 15 MINUTES</u> WHILE				
REMOVING CO	NTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH				
CLOTHING BEI	FORE REUSE. CONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE				
DECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.					
INHALATION:	REMOVE TO FRESH AIR IF EFFECTS OCCUR. IF NOT BREATHING, GIVE ARTIFICIAL				
RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.					
INGESTION:	DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.				
NEVER GIVE A	NYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.				
NOTE TO PHYSICIA	AN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE				
PHYSICIAN IN	RESPONSE TO REACTIONS OF THE PATIENT.				

SECTION VI

SUPPLEMENTAL HEALTH INFORMATION

CONTACT A POISON CONTROL CENTER FOR ADDITIONAL TREATMENT INFORMATION.

SECTION VII

PHYSICAL DATA

BOILING POINT (°F): > 500°F VAPOR PRESSURE (mm Hg @ 20°C): SOLUBILITY (IN WATER): VAPOR DENSITY (AIR = 1): EVAPORATION RATE (N-BUTYL ACETATE = 1): APPEARANCE AND ODOR:

SPECIFIC GRAVITY ($H_2O = 1$): 1.147 Not established Not soluble Not applicable Not established Clear, water white, viscous liquid with mild epoxy odor.

SECTION VIII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: $265 \,^{\circ}\text{F}$ (GLYCIDYL NEODECONATE)TCCFLAMMABLE LIMITS /% VOLUME IN AIR:LEL = Not applicableUEL = Not applicableEXTINGUISHING MEDIA:USE ALCOHOL TYPE FOAM, DRY CHEMICAL, OR CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. CONTAIN THE RUNOFF STREAM. TRY TO COVER LIQUID SPILLS WITH FOAM. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES, AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

SECTION IX

REACTIVITY

STABILITY: Excess heating over long periods of time degrades the resin.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR BY ITSELF, BUT MASSES OF MORE THAN 1 POUND OF PRODUCT PLUS AN ALIPHATIC AMINE WILL CAUSE IRREVERSIBLE POLYMERIZATION WITH CONSIDERABLE HEAT BUILDUP.

CONDITIONS AND MATERIALS TO AVOID: CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS, STRONG LEWIS OR MINERAL ACIDS, AND STRONG MINERAL AND ORGANIC BASES, ESPECIALLY PRIMARY AND SECONDARY AMINES. REACTION WITH SOME CURING AGENTS MAY PRODUCE CONSIDERABLE HEAT.

HAZARDOUS DECOMPOSITION PRODUCTS: HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE INTENSE HEAT, DENSE BLACK SMOKE, CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, ACIDS, PHENOLICS, WATER, AND HYDROCARBON FRAGMENTS.

PRODUCT NAME: **PM-180 ELASTOMERIC EPOXY RESIN, PART A**

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SECTION X	EMPLOYEE PROTECTION
AIRBORNE CONCENTRATION NOT ADEQUATELY CONTROLLED APPROVED POSITIVE-PRESSU	PROVIDE ADEQUATE VENTILATION. AVOID BREATHING OF VAPORS OR MISTS. IS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. WHEN EXPOSURES ARE , USE AN APPROVED RESPIRATOR. FOR EMERGENCY CONDITIONS, USE AN JRE SELF-CONTAINED BREATHING APPARATUS.
BE WORN. LAUNDER OR DR	PROTECTIVE CLOTHING SUCH AS UNIFORMS, COVERALLS, OR LAB COATS MUST Y-CLEAN WHEN SOILED. GLOVES AND GOGGLES RESISTANT TO CHEMICALS ES REQUIRED. WHEN HANDLING LARGE QUANTITIES, IMPERVIOUS SUITS, 'S MUST BE WORN.
SECTION XI	Environmental Protection
POSSIBLE. WIPE UP OR ABSORB ON SU	VENTILATE THE AREA. AVOID BREATHING VAPOR. USE SELF- OR SUPPLIED AIR FOR LARGE SPILLS OR CONFINED AREAS. CONTAIN SPILL IF JITABLE MATERIAL AND PICK UP WITH SHOVELS. PREVENT ENTRY INTO OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
SECTION XII	SPECIAL PRECAUTIONS
AS AN INDUSTRIAL CHEMICAL. KEEP AND PERSONAL CLEANLINESS TO AVO	TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. HANDLE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. PRACTICE GOOD CAUTION DID SKIN AND EYE CONTACT. HOLD BULK STORAGE UNDER NITROGEN ACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND
SECTION XIII	TRANSPORTATION REQUIREMENTS
DEPARTMENT OF TRANSPORTA	TION CLASSIFICATION:
HAZARD CLASS:	NOT HAZARDOUS BY D.O.T. REGULATIONS
IDENTIFICATION NUMBER:	NOT APPLICABLE
LABEL REQUIRED: D.O.T. PROPER SHIPPING NAME:	NONE Not decly attend
SECTION XIV	NOT REGULATED OTHER REGULATORY CONTROLS
	IVE. SELECTED REGULATIONS PRESENTED.
A. SARA TITLE III SECTION 3B. WHMIS CLASSIFICATION:	11/312 HAZARDS: IMMEDIATE HEALTH HAZARD CLASSES D2B
C. TSCA STATUS:	LISTED ON TSCA INVENTORY
D. OSHA HAZARD COMM. STI	
SECTION XV	STATE REGULATORY INFORMATION
CONNECTICUT TOX. SUBST. LIST; FL = FLOR	= California Safe Drinking Water and Toxics Enforcement Act List; CT = ida Subst. List; IL = Illinois Tox. Subst. List; LA = Louisiana Haz. Subst. List; MA = Haz. Subst. List; MN = Minnesota Haz. Subst. List; NJ = New Jersey Haz. Subst. List = Rhode Island Haz. Subst. List.
SECTION XVI	Special Notes
UPDATED MSDS.	
	IN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE ATINGS, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE

CORRECT. HOWEVER, MILAMAR COATINGS, INC. MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. MILAMAR COATINGS, INC. ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

DATE PREPARED: OCTOBER 5, 2011

PREPARED BY: MILAMAR COATINGS, INC. 311 NW 122ND ST, STE 100 OKLAHOMA CITY, OK 73114