PRODUCT NAME: PM-300 PART B HARDENER

PAGE: 1

MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY A	ASSISTANCE	GENERAL ASSISTANCE		
СНЕМ•ТЕL: 1-800-255-39	924	TELE-TECH: 405-755-8448		
HEALTH: 3	HAZ	HAZARD RATING		
FIRE: 1	LEAST = 0	SLIGHT = 1	MODERATE = 2	
REACTIVITY: 1	HIGH = 3	EXTREME = 4	Ļ	
SECTION I				
PRODUCT:	PM-300 PART B HA	ARDENER		
CHEMICAL NAME:	MIXTURE			
CHENTICAL FAMILY				

CHEMICAL FAMILY: **PRODUCT DESCRIPTION:**

AMINE

EPOXY CURING AGENT SECTION II-A PRODUCT / INGREDIENT

<u>No.</u>	COMPOSITION		CAS NUMBER	Percent
1	NONYLPHENOL		25154-52-3	***
2	M-XYLENE DIAMINE		1477-55-0	***
3	ISOPHORONE DIAMINE		2855-13-2	***
4	POLYGLYCOL		***	***
	***	THE SPECIFIC CHEMICAL IDENTITY AND/OR PROPORTION OF THESE		

COMPONENTS IS CONSIDERED TRADE SECRET INFORMATION.

SECTION II-B		ACUTE TOXICIT	ч Дата
No.	ACUTE ORAL LD50	Acute Dermal LD50	ACUTE INHALATION LC50
1	1.600 g/kg (rat)	>200 mg/kg (rabbit)	Not available
2	Not available	Not available	Not available
3	1.03 g/kg (rat)	Not available	Not available
4	28 g/kg (rat)	Not available	Not available

SECTION III

HEALTH INFORMATION

THE HEATH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910-1200).

- **EYE CONTACT:** CORROSIVE TO THE EYES AND MAY CAUSE SEVERE DAMAGE WHICH MAY RESULT IN PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS. VAPORS MAY BE IRRITATING.
- **SKIN CONTACT:** MAY CAUSE SEVERE IRRITATION WITH PAIN, CHEMICAL BURNS, BLISTER FORMATION, AND POSSIBLE TISSUE DESTRUCTION.
- **INHALATION:** MAY CAUSE RESPIRATORY SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. VAPORS OR MISTS MAY BE CORROSIVE TO THE UPPER RESPIRATORY TRACT. REPEATED EXPOSURE MAY RESULT IN LUNG DAMAGE.
- **INGESTION:** ACUTELY TOXIC. CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT, AND STOMACH. ASPIRATION MAY OCCUR DURING SWALLOWING OR VOMITING, RESULTING IN LUNG DAMAGE.
- **AGGRAVATED MEDICAL CONDITIONS:** SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS (SKIN CONDITION). OVEREXPOSURE TO VAPOR, DUST, OR MIST MAY AGGRAVATE EXISTING RESPIRATORY CONDITIONS, SUCH AS ASTHMA, BRONCHITIS, AND INFLAMMATORY OR FIBROTIC RESPIRATORY DISEASE.

OTHER HEALTH EFFECTS: SEE SECTION VI FOR SUPPLEMENTAL HEALTH INFORMATION.

PRODUCT NAME: **PM-300 PART B HARDENER** PAGE: 2

SEC	FION IV		Occ	CUPATIONAL EXP	POSURE LIMITS
No.	PEL/TW	OSHA A	PEL/CEILING	ACGIH TLV/TWA	H Other TLV/STEL
1 2 3 4	None esta None esta None esta	ablished	l 0.1 mg/M ³ (skin)* l	0.1 mg/M ³ (skin)	1)**
	1	membra	anes, or eyes, by direct of	r airborne exposure,	bsorbed through the skin, mucous , and suggests that appropriate measures osure limit is not invalidated.
	**	Ceiling	limit.		
SEC	ΓΙΟΝ V		Емн	ERGENCY AND FI	IRST 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 RINSE ENTIRE SURFACE OF EYE AND LIDS WITH WATER. PROMPT MEDICAL ATTENTION IS ESSENTIAL. SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR <u>AT LEAST 15 MINUTES</u> WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES. INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW, GIVE TWO GLASSES OF WATER (16 oz). GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. NOTE TO PHYSICIAN: MAY CAUSE TISSUE DESTRUCTION LEADING TO STRICTURE. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGOSCOPIC CONTROL. IF BURN IS PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION. NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT. 					
SEC	ΓΙΟΝ VI		SUP	PLEMENTAL HEA	ALTH INFORMATION
Some Other	AROMATIC A R TOXIC EFFE	MINES A	ARE KNOWN TO PRODUCE	METHEMOGLOBINEM ITIS, AND ANEMIA. IT	L TREATMENT INFORMATION. MIA AND CANCER OF THE URINARY TRACT. T HAS BEEN GENERALLY KNOWN THAT 5, AND HEART.

SECTION VII

PHYSICAL DATA

Specific Gravity $(H_2O = 1)$: 0.971		
Not established		
VAPOR DENSITY (AIR = 1): > 1		
>1		
Clear, light yellow, liquid with ammonia-like odor.		

PRODUCT NAME: **PM-300 PART B HARDENER**

PAGE: 3

SECTION VIII

FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD:> 200 °F (SETAFLASH)FLAMMABLE LIMITS /% VOLUME IN AIR:Not established

EXTINGUISHING MEDIA: USE WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING. USE WATER TO COOL FIRE-EXPOSED CONTAINERS. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND TO PROVIDE PROTECTION FOR PERSONS ATTEMPTING TO STOP THE LEAK.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: USE A POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. 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: DELAYED LUNG DAMAGE (PULMONARY EDEMA) CAN BE EXPERIENCED AFTER EXPOSURE TO COMBUSTION PRODUCTS, SOMETIMES HOURS AFTER THE EXPOSURE. HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE INTENSE HEAT, DENSE BLACK SMOKE, CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, NITROGEN CONTAINING ORGANIC COMPOUNDS, AND HYDROCARBON FRAGMENTS.

SECTION IX

REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS OF HANDLING.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS AND MATERIALS TO AVOID: AVOID EXPOSURE TO HEAT, LIGHT FLAME OR OTHER SOURCES OF IGNITION. REACTS WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: NITROGEN OXIDES, CARBON MONOXIDE, AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION X

EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. Use an approved respirator. Selection of Air-purifying or positive-pressure supplied Air Will depend on the specific operation and the potential Airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing Apparatus.

PROTECTIVE CLOTHING: PROTECTIVE CLOTHING SUCH AS UNIFORMS, COVERALLS, OR LAB COATS MUST BE WORN. LAUNDER OR DRY-CLEAN WHEN SOILED. GLOVES AND GOGGLES RESISTANT TO CHEMICALS AND PETROLEUM DISTILLATES REQUIRED. WHEN HANDLING LARGE QUANTITIES, IMPERVIOUS SUITS, GLOVES, AND RUBBER BOOTS MUST BE WORN.

SECTION XI

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES: **DANGER -- CORROSIVE!** PREVENT ALL BODILY CONTACT WITH SPILLED MATERIAL. VENTILATE THE AREA. AVOID BREATHING VAPOR. USE SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR FOR LARGE SPILLS OR CONFINED AREAS. SHUT OFF LEAK ONLY IF SAFE TO DO SO. ELIMINATE POTENTIAL FIRE HAZARDS. DIKE AND CONTAIN SPILL IF POSSIBLE. REMOVE WITH VACUUM TRUCK OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND, OR OTHER SUITABLE MATERIAL AND PICK UP WITH SHOVELS. PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. DO NOT USE SAWDUST, WOOD CHIPS, OR OTHER CELLULOSIC MATERIALS TO ABSORB THE SPILL. PREVENT ENTRY INTO SEWERS AND WATERWAYS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

PRODUCT NAME: **PM-300 PART B HARDENER**

PAGE: 4

SECTION XII

SPECIAL PRECAUTIONS

GROUND ALL TRANSFER EQUIPMENT. TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE. HANDLE AS AN INDUSTRIAL CHEMICAL. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. PRACTICE GOOD CAUTION AND PERSONAL CLEANLINESS TO AVOID SKIN AND EYE CONTACT. HOLD BULK STORAGE UNDER NITROGEN BLANKET. STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION. KEEP AWAY FROM OPEN FLAMES AND HIGH TEMPERATURES. COPPER AND ALLOYS OF COPPER SHOULD NOT BE USED AS THEY ARE QUICKLY CORRODED BY THE PRODUCT. HEATING THIS CURING AGENT IN THE PRESENCE OF AIR MAY CAUSE THERMAL AND OXIDATIVE DECOMPOSITION. WITH SOME EPOXY RESINS, IT MAY PRODUCE EXOTHERMIC REACTIONS WHICH IN LARGE MASSES CAN CAUSE RUNAWAY POLYMERIZATION AND CHARRING OF THE REACTANTS. FUMES AND VAPORS FROM THESE THERMAL AND CHEMICAL DECOMPOSITIONS VARY WIDELY IN COMPOSITION AND TOXICITY. DO NOT BREATHE FUMES. USE A NIOSH-APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE.

SECTION XIII

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:

HAZARD CLASS: PACKING GROUP: IDENTIFICATION NUMBER: LABEL REQUIRED: D.O.T. PROPER SHIPPING NAME: 8 -- Corrosive Liquid III UN 2735 Corrosive Polyamines, liquid,corro

POLYAMINES, LIQUID, CORROSIVE, N.O.S., (M-XYLENE DIAMINE AND NONYLPHENOL) MARINE POLLUTANT, 8, PG III, UN 2735

OTHER REGULATORY CONTROLS

HAZARDOUS CHEMICAL

IMMEDIATE HEALTH

NOT AVAILABLE

NOT MEANT TO BE ALL-INCLUSIVE. SELECTED REGULATIONS PRESENTED.

A. SARA TITLE III SECTION 311/312:

B. WHMIS CLASSIFICATION:

C. TSCA STATUS:

D. OSHA HAZARD COMM. STD.:

SECTION XV

SECTION XIV

STATE REGULATORY INFORMATION

LISTED ON TSCA INVENTORY

NONYLPHENOL: M-XYLENE DIAMINE: CA, FL, MA, PA FL, IL, LA, MA, MN, NJ, PA, RI

CA = CALIFORNIA HAZ. SUBST. LIST; CA65 = CALIFORNIA SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT LIST; CT = CONNECTICUT TOX. SUBST. LIST; FL = FLORIDA SUBST. LIST; IL = ILLINOIS TOX. SUBST. LIST; LA = LOUISIANA HAZ. SUBST. LIST; MA = MASSACHUSETTS SUBST. LIST; ME = MAINE HAZ. SUBST. LIST; MN = MINNESOTA HAZ. SUBST. LIST; NJ = NEW JERSEY HAZ. SUBST. LIST; PA = PENNSYLVANIA HAZ. SUBST. LIST; RI = RHODE ISLAND HAZ. SUBST. LIST.

SECTION XVI

SPECIAL NOTES

UPDATED MSDS.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE 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.

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