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MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY ASSISTANCEGENERAL ASSISTANCECHEMTEL: 1-800-255-3924TELE-TECH: 405-755-8448

HEALTH: 2 HAZARD RATING

Fire: 1 Least = 0 Slight = 1 Moderate = 2

REACTIVITY: 1 HIGH = 3 EXTREME = 4

SECTION I

PRODUCT: PM-175 EPOXY RESIN, PART A

CHEMICAL NAME: MIXTURE CHEMICAL FAMILY: EPOXY

PRODUCT DESCRIPTION: EPOXY RESIN

SECTION II-A PRODUCT / INGREDIENT

 No.
 COMPOSITION
 CAS NUMBER
 PERCENT

 1
 POLYMER OF EPICHLOROHYDRIN AND BISPHENOL A
 025085-99-8
 83-98%

 2
 ALKYL GLYCIDYL ETHER (C12 – C14)
 068609-97-2
 2-17%

SECTION II-B ACUTE TOXICITY DATA

NO. ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50

SEE SECTION III

SECTION III HEALTH INFORMATION

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

EYE CONTACT: MAY CAUSE SLIGHT TRANSIENT (TEMPORARY) EYE IRRITATION.

CORNEAL INJURY IS UNLIKELY.

SKIN CONTACT: HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS. PROLONGED

EXPOSURE NOT LIKELY TO CAUSE SIGNIFICANT SKIN IRRITATION.

SKIN ABSORPTION: A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS. THE DERMAL LD50 HAS NOT BEEN DETERMINED.

INHALATION: EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT.

INGESTION: SINGLE DOSE ORAL TOXICITY IS LOW. THE ORAL LD50 FOR RAS IS >2000 Mg/kg. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

CANCER INFORMATION: SEVERAL STUDIES HAVE BEEN CONDUCTED TO ASSEST THE POTENTIAL CARCINOGENICITY OF GIGLYCIDL ETHER OF BISPHENOL A (DGEBPA) – BASED EPOXY RESINS. IN ONE OF THESE, A DGEBPA-BASED RESIN (CONTAINING HIGH LEVELS OF SEVERAL IMPURITIES, INCLUDING A

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KNOWN ANIMAL SKIN CARCINOGEN) REPORTED TO A WEAK CARCINOGENIC RESPONSE IN THE SKIN OF ONE OF THE TWO STRAINS OF MICE TESTED. RECENT STUDIES HAVE SUGGESTED SLIGHT INCREASES IN TWO SYSTEMIC TUMOR TYPES FOLLOWING REPEATED APPLICATION OF CERTAIN DGBPA-CONATINING RESINS (OR PURE DGEBPA), ALTHOUGH THE RESPONSE WAS NOT UNIFORM AMONG PRACTICALLY INDENTICAL RESINS. BASED ON THESE DATA, AND THE OTHER STUDIES WHICH HAVE NOT SHOWN CANCER, THE CAUSE-EFFECT RELATIONSHIP BETWEEN DGEBPA-TREATMENT AND THESE CAUSE-EFFECT RELATIONSHIP BETWEEN DGEBPA-TREATMENT AND THESE TUMOR INCREASES IN QUESTIONABLE. INDEED, A RECENT REVIEW OF THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT DGEBPA IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY.

SECTION IV OSHA		Oc	OCCUPATIONAL EXPOSURE LIMITS		
		ACGIH		OTHER	
No.	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	
1	N/A	N/A	N/A	N/A	
2	N/N	N/A	N/A	N/A	

SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with plenty of water

SKIN CONTACT: WASH OFF IN FLOWING WATER OR SHOWER.

INHALATION: REMOVE TO FRESH AIR IF EFFECS OCCUR. CONSULT A PHYSICAN.
INGESTION: INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED. CONSULT

MEDICAL PERSONNEL.

NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PAITENT.

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

CONTACT A POISON CONTROL CENTER FOR ADDITIONAL TREATMENT INFORMATION.

SECTION VII PHYSICAL DATA

Boiling Point (°F): >300F Specific Gravity ($H_2O = 1$): 1.11 - 1.14

VAPOR PRESSURE (mm Hg @ 20°C): 0.06 MM @ 70F

SOLUBILITY (IN WATER): NONE

Vapor Density (Air = 1): Not applicable when flash point >250f

EVAPORATION RATE (N-BUTYL ACETATE = 1):

APPEARANCE AND ODOR: CLEAR (LIGHT YELLOW) LIQUID IF NOT PIGMENTED. FAINT EPOXY.

SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: 350-375F, 176.7-190.6C PMCC, ASTM D-93

FLAMMABLE LIMITS /% VOLUME IN AIR: NOT DETERMINED

EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: WEAR POSITIVE PRESSURE SELF-

CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

SECTION IX REACTIVITY

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STABILITY: (CONDITOINS TO AVOID) EXCESSIVE HEATING OVER LONG PERIODS OF TIME DEGRADES THE RESIN. FREEZING MAY CAUSE A TEMPORARY HAZE TO DEVELOP. FIRE CONDITIONS INCREASE VISCOSITY AND EXPODIE EQUIVALENT WEIGHT.

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

CONDITIONS AND MATERIALS TO AVOID: (SPECIFIC MATERIALS TO AVOID) BASE, ACID, AMINES, AND OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS: UNDER CONDITIONS OF IMPERFECT COMBUSTION AND/OR PYROLYSIS VARIOUS PHENOLIC COMPOUNDS CO AND/OR CO2 MAY BE EVOLVED.

SECTION X

EMPLOYEE PROTECTION

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS.

RESPIRATORY PROTECTION: NO RESPIRATORY PROTECTION SHOULD BE NEEDED. IF RESPIRATORY IRRITATION IS EXPERIENCED, USE AN APPROVED AIR-PURIFYING RESPIRATOR.

PROTECTIVE CLOTHING: WEAR CLEAN, LONG-SLEEVED, BODY-COVERING CLOTHING. USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS GLOVES, BOOTS, APRON, OR FULL-BODY SUIT WILL DEPEND OF OPERATION.

EYE PROTECTION: USE SAFETY GLASSES. WHERE CONTACT WITH THIS MATERIAL IS LIKELY, CHEMICAL GOGGLES ARE RECOMMENDED BECAUSE EYE CONTACT MAY CAUSE PAIN EVEN THOUGH IT IS UNLIKELY TO CAUSE INJURY.

SECTION XI

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES: SOAK UP IN ABSORBENT MATERIAL SUCH AS SAND AND COLLECT IN SUITABLE CONTAINERS. RESIDUAL RESIN MAY BE REMOVED USING STEAM OR HOT SOAPY WATER. SOLVENTS ARE NOT RECOMMENDED FOR CLEANUP UNLESS THE RECOMMENDED EXOSURE GUIDELINES AND SAFE HANDLING PRACTICEC FOR THE SPECIFIC SOLVENT ARE FOLLOWED. CONSLUT APROPRIATE SOLVENTMSDS FOR HANDLING INFORMATION AND EXPOSURE GUIDELINES. KEEP SPARK PRODUCING EQUIPMENT AWAY. FOR LARGE SPILLS, EVACUTAE UPWIND OF SPILLS AND CONTAIN WITH A DIKE.

DISPOSAL METHOD: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. FOR UNUSED OR UNCONTAMINATED MATERILA, THE PREERRED DISPOSAL OPTIONS ARE TO SEND TO A LICENSED RECYCLER, RECLAIMER, OR INCINERATOR. FOR USED OR CONTAMINATED MATERIAL, THE PREFERRED DISPOSAL OPTIONS REMAIN THE SAME, ALTHOUGH ADDITIONAL EVALUATION IS REQUIRED (SEE, FOR EXAMPLE, 40 CFR, PART 261, "IDENTIFICATION AND LISTING OF HAZARDOUS WASE.") ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH FEDERAL, STATE, PROVINCIAL, AND LOCAL LAWS AND REGULATIONS. CHECKWITH THE APPROPRIATE AGENCIES FOR YOUR LOCATION.

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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.

SECTION XIII

TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION CLASSIFICATION:

HAZARD CLASS: NOT HAZARDOUS BY D.O.T. REGULATIONS

IDENTIFICATION NUMBER: NOT APPLICABLE

LABEL REQUIRED: NONE

D.O.T. PROPER SHIPPING NAME: NOT REGULATED

SECTION XIV

OTHER REGULATORY CONTROLS

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

A. SARA TITLE III SECTION 311/312 HAZARDS: IMMEDIATE HELATH HAZARD

B. SARA TITLE III SECTION 313 HAZARDS: N/A

C. WHMIS CLASSIFICATION: CLASSES D2B

D. TSCA STATUS: LISTED ON TSCA INVENTORY
E. OSHA HAZARD COMM. STD.: HAZARDOUS CHEMICAL

SECTION XV

STATE REGULATORY INFORMATION

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

NEW 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.

DATE PREPARED: OCTOBER 5, 2011

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