

PRODUCT NAME: **DECOEFFECTS 400 WB EPOXY RESIN, CLEAR PART A**

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MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY ASSISTANCE

CHEM TEL: 1-800-255-3924

GENERAL ASSISTANCE

TELE-TECH: 405-495-8848

HEALTH: 2

HAZARD RATING

FIRE: 1

LEAST = 0

SLIGHT = 1

MODERATE = 2

REACTIVITY: 0

HIGH = 3

EXTREME = 4

SECTION I

PRODUCT: 400 WB EPOXY RESIN, CLEAR PART A

CHEMICAL NAME: MIXTURE

CHEMICAL FAMILY: EPOXY

PRODUCT DESCRIPTION: EPOXY RESIN

SECTION II-A

PRODUCT / INGREDIENT

<u>No.</u>	<u>COMPOSITION</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>
1	REACTION PRODUCTS OF EPICHLOROHYDRIN AND BISPHENOL A	25085-99-8	60-70%
2	ISOPROPANOL	67-63-0	1-10%
3	GLYCIDYL NEODECONATE	26761-45-5	20-30%

SECTION II-B

ACUTE TOXICITY DATA

<u>No.</u>	<u>ACUTE ORAL LD50</u>	<u>ACUTE DERMAL LD50</u>	<u>ACUTE INHALATION LC50</u>
1	>5.0 G/KG	20.0 G/KG (RABBIT)	NO DEATHS IN SAT'D AIR, 8 HR
2	4.7 G/KG (RAT)	12.7 G/KG (RABBIT)	19.0 G/KG (RAT)
3	9.6 G/KG (RAT)	38.0 G/KG (RAT)	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: IRRITATING AND WILL INJURE EYE TISSUE IF NOT REMOVED PROMPTLY.

SKIN CONTACT: MAY CAUSE SEVERE IRRITATION. HAS BEEN KNOWN TO CAUSE ALLERGIC SKIN REACTION IN HUMANS. PROLONGED CONTACT MAY CAUSE BLISTERS.

INHALATION: HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES AND RESPIRATORY TRACT, MAY CAUSE HEADACHES AND DIZZINESS, ARE ANESTHETIC, AND MAY HAVE OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH.

INGESTION: MAY BE MODERATELY TOXIC IF SWALLOWED.

SIGNS AND SYMPTOMS: IRRITATION AS NOTED ABOVE. SKIN SENSITIZATION (ALLERGY) MAY BE EVIDENCED BY RASHES, ESPECIALLY HIVES.

AGGRAVATED MEDICAL CONDITIONS: PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.
PREEXISTING SKIN AND LUNG ALLERGIES MAY INCREASE THE CHANCE OF DEVELOPING INCREASED ALLERGY SYMPTOMS FROM EXPOSURE TO THIS PRODUCT.

OTHER HEALTH EFFECTS: BASED ON ANIMAL STUDIES, REPEATED EXPOSURE TO COMPONENTS OF THIS PRODUCT MAY CAUSE DAMAGE TO LIVER, KIDNEY, AND RESPIRATORY SYSTEMS. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING VAPORS MAY BE HARMFUL OR FATAL.

SECTION IV		OCCUPATIONAL EXPOSURE LIMITS			
No.	OSHA		ACGIH		OTHER
	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL	
1	NONE ESTABLISHED				
2	400 PPM		400 PPM	500 PPM	
3	NONE ESTABLISHED				

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 AT LEAST 30 MINUTES. 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 AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A HYSICIAN IF IRRITATION PRESISTS. WASH CLOTHING BEFORE REUSE. ONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE ECONTAMINATED AND SHOULD BE DESTROYED TO PREVENT REUSE.

INHALATION: REMOVE VICTIM 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 (16OZ.) . **GET IMMEDIATE MEDICAL ATTENTION.** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVLUSING PERSON.

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

CONTACT A POISON CONTROL CENTER FOR ADDITIONAL TREATMENT INFORMATION. HEALTH STUDIES HAVE SHOWN THAT MANY PETROLIUM HYDROCARBONS POSE POTENTIAL HUMAN HEALTH RISKS WHICH VARY FROM PERSON TO PERSON. AS A PRECAUTION, EXPOSRE TO LIQUIDS, VAPORS, MISTS, OR FUMES SHOULD BE MINIMIZED. INGESTION OF LARGE QUANTITIES (1% OF DIET) OF COMPONENT 8 PRODUCED BODY WEIGHT CHANGES IN EXPERIMENTAL ANIMALS AND IN THE LIVER AND KIDNEY. LEVELS OF 0.5% AND 1.0% WT IN THE DIET ALSO CAUSED BLOOD CHANGES AND REDUCED ERYTHROCYTE COUNT AND HEMATOCRIT.

SECTION VII PHYSICAL DATA

BOILING POINT (°F):	(ALCOHOL) 180	SPECIFIC GRAVITY (H ₂ O = 1):	1.07
VAPOR PRESSURE (mm Hg @ 20°C):		NOT ESTABLISHED	

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SOLUBILITY (IN WATER):	PARTIALLY SOLUBLE
VAPOR DENSITY (AIR = 1):	>1
EVAPORATION RATE (N-BUTYL ACETATE = 1):	(ALCOHOL) 2.3
APPEARANCE AND ODOR:	PIGMENTED, OPAQUE, VISCOUS LIQUID WITH MILD ODOR.

SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: 201° F TCC

FLAMMABLE LIMITS /% VOLUME IN AIR: LEL = 2.0 UEL = 12.7 @ 77 DEGREE'S F

EXTINGUISHING MEDIA: USE ALCOHOL THPE FOAM, DRY CHEMICAL, OR CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS. CONTAIN THE RUNOFF STREAM. TRY TO COVER LIQUID SPILLS WITH FOAM. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMENT WITH FACE SHIELD, BUNKER COATS, GLOVES, AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE O2H 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: AVOID EXPOSURE TO HEAT, LIGHT, FLAME, OR OTHER SOURCES OF IGNITION. CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS, STRONG LEWIS OR MINERAL ACIDS, AND STRONG MINERAL AND ORGANIC BASE/ESPECIALLY PRIMARY AND SECONDARY AMINES. REACTION WITH SOME CURING AGENT 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.

SECTION X EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: PROVIDE ADEQUATE VENTILATION. AVOID BREATHING OF VAPORS OR MISTS. AIRBORNE CONCENTRATIONS SHOULD BE KEPT TO LOWEST LEVELS POSSIBLE. WHEN EXPOSURES ARE NOT ADEQUATELY CONTROLLED, 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 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: VENTILATE THE AREA. AVOID BREATHING VAPOR. USE SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED AIR FOR LARGE SPILLS OR CONFINED AREAS. CONTAIN SPILL IF POSSIBLE. WIPE UP OR ABSORB ON SUITABLE MATERIAL AND PICK UP WITH SHOVELS. DO NOT USE SAWDUST, WOOD CHIPS, OR OTHER CELLULOSIC MATERIALS TO ASORB THE SPILL. PREVENT ENTRY INTO SEWERS AND WATERWAYS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

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:	3 -- COMBUSTIBLE LIQUID
PACKING GROUP:	III
IDENTIFICATION NUMBER:	NA 1993
LABEL REQUIRED:	NONE
D.O.T. PROPER SHIPPING NAME:	COMBUSTIBLE LIQUID, N.O.S., (ISOPROPANOL), 3, PG III, NA 1993

SECTION XIV OTHER REGULATORY CONTROLS

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

A.	SARA TITLE III SECTION 311/312 HAZARDS:	IMMEDIATE HEALTH, DELAYED HEALTH, FIRE
B.	SARA TITLE III SECTION 313:	
C.	WHMIS CLASSIFICATION:	CLASSES D2, D2B
D.	TSCA STATUS:	LISTED ON TSCA INVENTORY
E.	OSHA HAZARD COMM. STD.:	HAZARDOUS CHEMICAL

SECTION XV STATE REGULATORY INFORMATION

NONE KNOWN.

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

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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.
7500 MELROSE LANE
OKLAHOMA CITY, OK 73127