

HAZARD RATING
 4=EXTREME
 3=HIGH
 2=MODERATE
 1=SLIGHT
 0=INSIGNIFICANT

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

SAFETY DATA SHEET
 VEXCON NO. CP202
**PROCOAT HBE SYSTEM
 PART A CLEAR**


SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION: PROCOAT HBE SYSTEM PART A CLEAR	
VOC CONTENT:	PART A ONLY: <100 PART B ONLY: 0 AS APPLIED: <50
CATEGORY:	INDUSTRIAL MAINTENANCE COATING
COMMON NAME:	HARDENER FOR EPOXY RESIN COATING
MANUFACTURER:	VEXCON CHEMICALS, INC
ADDRESS	7240 STATE RD, PHILADELPHIA, PA 19135
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PREPARED:	NOVEMBER 2016
UPDATED:	AUGUST 2017
PREPARED BY:	DARRYL F. MANUEL , PRESIDENT

SECTION III HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA
BENZYL ALCOHOL	100-51-6	15-40%	US WEEL: TWA 10 ppm
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (ISOPHORONEDIAMINE)	2855-13-2	15-40%	NA
1,3 BENZENE DIMETHANAMINE	1477-55-0	5-15%	ACGIH: CEILING 0.1 mg/m3 ACGIH: CEILING: ABSORBED VIA SKIN
1,3 BENZENE DIMETHANAMINE, POLYMER WITH 2,2-[(1-METHYLETHYLIDENE) BIS (4,1-PHENYLENE OXYMETHYLENE)] BIS [OXIRANE]	110839-13-9	10-30%	DOW IHG: TWA 1 ppm DOW IHG: STEL 3 ppm
4-NONYLPHENOL, BRANCHED	84852-15-3	3-7%	NA
SALICYLIC ACID	69-75-7	1-5%	NA
BENZYL DIMETHYLAMINE	103-83-3	1-5%	NA

SECTION II - HAZARD IDENTIFICATION



- Skin Corrosion/Burns
- Eye Damage
- Corrosive to metals

- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target Organ Toxicity

- Irritant (Eye & Skin)
- Skin Sensitizer
- Acute Toxicity
- Narcotic Effect
- Respiratory Tract Irritant

HEALTH AND SAFETY: DANGER: HARMFUL IF SWALLOWED OR IF INHALED, CAUSES SEVERE SKIN BURNS AND EYE DAMAGE, MAY CAUSE AN ALLERGIC SKIN REACTION. SUSPECTED OF DAMAGING FERTILITY OF THE UNBORN CHILD. USE ONLY WITH ADEQUATE VENTILATION: IF SWALLOWED, DO NOT INDUCE VOMITING: USE OF SOLVENT RESISTANT GLOVES, GOGGLES AND OTHER PROTECTIVE EQUIPMENT IS ADVISED WHEN HANDLING THIS PRODUCT: ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL: USE OF RESPIRATORS IS ADVISED WHEN USING PRODUCT IN CONFINED AREA.

SECTION IV FIRST AID MEASURES

HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE

ROUTES OF EXPOSURE:	
INHALATION:	THIS PRODUCT MAY CREATE BREATHING DIFFICULTIES. DIZZINESS, LIGHTHEADEDNESS WHEN WORKING IN AREAS WITH HIGH VAPOR CONCENTRATION.
SKIN CONTACT:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
SKIN ABSORPTION:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
EYE CONTACT:	THIS PRODUCT MAY BE AN EYE IRRITANT.
INGESTION / INHALATION	CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING. SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION, OR FROM VOMITING, MAY CAUSE BRONCHOPNEUMONIA OR PULMONARY EDEMA. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
ACUTE OVEREXPOSURE:	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATE IRRITATION BY LIQUID TO SKIN AND EYES. PROLONGED CONTACT ON THE SKIN WILL CLAY AND DEFAIT THE SKIN POSSIBLY CAUSING DERMATITIS.

EMERGENCY AND FIRST AID PROCEDURES:

EYES:	FLUSH WITH PLENTY OF WATER FOR AT LEAST 30 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION. CONSULT A PHYSICIAN.
SKIN:	WASH WITH SOAP AND LARGE QUANTITIES OF WATER FOR AT LEAST 15 MNS. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.

INHALATION:	MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION. THIS PRODUCT CONTAINS SOMETIMES SMALL QUANTITIES OF RESPIRABLE CRYSTALLINE SILICA. PROLONGED / REPEATED INHALATION OF RESPIRABLE CRYSTALLINE SILICA DUST MAY CAUSE DELAYED LUNG INJURY (SILICOSIS) AND INCREASE THE RISKS OF DEVELOPING RESPIRATORY CANCER.
INGESTION:	DO NOT INDUCE VOMITING; GIVE ONE CUP (8OZ OR 240 ml) OF WATER OR MILD IF AVAILABLE. DO NOT GIVE ANYTHING BY MOUTH UNLESS THE PERSON IS FULLY CONSCIOUS. SEEK IMMEDIATE MEDICAL ATTENTION.

OTHER HANDLING AND STORAGE REQUIREMENTS: STORE AND USE IN WELL VENTILATED AREA, EQUIVALENT TO FRESH AIR. KEEP CONTAINERS COOL, DRY, AND AWAY FROM SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT STORE OR CONSUME FOOD, DRINK, OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. KEEP AWAY FROM HIGH TEMPERATURES, OPEN FLAMES, SPARKS, SOURCES OF IGNITION, ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS: LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WEIGHTED TLV RANGES. IF LOCAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. OTHER SPECIAL PRECAUTIONS SUCH AS RESPIRATORY MASKS OR ENVIRONMENTAL CONTAINMENT DEVICES MAY BE REQUIRED IN EXTREME CASES.
RESPIRATORY (SPECIFY IN DETAIL): THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE TIME WEIGHTED TLV: USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIR-PACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE. FULL FACE ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.
EYES: CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.
GLOVES: THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA.
OTHER CLOTHING AND EQUIPMENT: TO PREVENT BODY CONTACT, IMPERVIOUS CLOTHING AND BOOTS ARE RECOMMENDED. IMPERVIOUS APRONS AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

SECTION V FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY. ALCOHOL RESISTANT FOAMS (ATC TYPE) ARE PREFERRED. DO NOT USE DIRECT WATER STREAM. MAY SPREAD FIRE
GENERAL HAZARD:	HAZARDOUS COMBUSTION PRODUCTS: DURING A FIRE, SMOKE MAY CONTAIN THE ORIGINAL MATERIAL IN ADDITION TO COMBUSTION PRODUCTS OF VARYING COMPOSITION WHICH MAY BE TOXIC AND/OR IRRITATING. COMBUSTION PRODUCTS MAY INCLUDE AND ARE NOT LIMITED TO NITROGEN OXIDES, CARBON MONOXIDE, CARBON DIOXIDE.
UNUSUAL FIRE AND EXPLOSION HAZARD:	VIOLENT STEAM GENERATION OR ERUPTION MAY OCCUR UPON APPLICATION OF DIRECT WATER STREAM TO HOT LIQUIDS. DENSE SMOKE IS PRODUCED WHEN PRODUCT BURNS.
SPECIAL FIRE FIGHTING PROCEDURES	THE USE OF SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE SHOULD BE PROVIDED FOR FIRE FIGHTERS IN BUILDINGS OR CONFINED AREAS WHERE THIS PRODUCT IS STORED. STORAGE CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH WATER SPRAY IN ORDER TO PREVENT PRESSURE BUILD UP. USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. ISOLATE "FUEL" SUPPLY FROM FIRE. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: (760mmHg) 221°C / 430°F	MELTING/FREEZING POINT: PMCC
VAPOR PRESSURE: 1.55mmHG@68°F/20°C	VAPOR DENSITY (AIR=1): >1
SOLUBILITY IN H2O % BY WT: SLIGHTLY SOLUBLE	% VOLATILES BY VOL: 3-6%
EVAPORATION RATE (BuAc=1): NA	REALITIVE DENSITY (H2O=1) 1.023
pH (AS IS): N/A	pH (1% SOLN): N/A
APPEARANCE AND ODOR: CLEAR OR PIGMENTED LIQUID. MODERATE AMINE ODOR	
FLASH POINT: (TEST METHOD)	93°C / 200°F (TCC)
AUTOIGNITION TEMP:	NA
FLAMMABLE LIMITS IN AIR, % BY VOL:	NA

SECTION VI ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: ELIMINATE SOURCES OF IGNITION (FLARES, FLAMES, PILOT LIGHTS, ELECTRICAL SPARKS). PREVENT ADDITIONAL DISCHARGE OF MATERIAL; IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS, IMPLEMENT CLEANUP PROCEDURES. FOR LARGE SPILL, IMPLEMENT CLEAN UP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. DIKE SPILL AREA WITH SAND OR EARTH TO CONTAIN SPILLED LIQUID AND PREVENT SPREADING. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID CAN BE TAKEN UP ON SAND, EARTH, FLOOR ABSORBENT, OR WITH ANOTHER SUITABLE ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.

SECTION VII HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

FIRE FIGHTING: WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIUM BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. PERSONNEL SHOULD AVOID INHALATION OF VAPORS.

SECTION X STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY:	THIS PRODUCT IS STABLE.
INCOMPATIBILITY:	THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS OR BASES, AND SELECTED AMINES.
HAZARDOUS DECOMPOSITION PRODUCTS:	THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE, AND UNIDENTIFIED ORGANICS.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:	N/A WILL NOT OCCUR

SECTION XI TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	ACUTE ORAL TOXICITY
	LOW TOXICITY IF SWALLOWED. SWALLOWING MAY RESULT IN GASTROINTESTINAL IRRITATION OR ULCERATION. SWALLOWING MAY RESULT IN BURNS OF THE MOUTH AND THROAT.
	AS PRODUCT: SINGLE DOSE ORAL LD50 HAS NOT BEEN DETERMINED.
	BASED ON INFORMATION FOR COMPONENT (S): LD50 RAT, 1,000 mg/kg ESTIMATED.
	ACUTE DERMAL TOXICITY
	PROLONGED OR WIDESPREAD SKIN CONTACT MAY RESULT IN ABSORPTION OF POTENTIALLY HARMFUL AMOUNTS. THE DERMAL LD50 HAS NOT BEE DETERMINED
	ACUTE INHALATION TOXICITY
	EXCESSIVE EXPOSURE MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT (NOSE, THROAT). MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS AND DROWSINESS, PROGRESSING TO IN COORDINATION AND UNCONSCIOUSNESS. PROLONGED EXCESSIVE EXPOSURE MAY CAUSE SERIOUS ADVERSE EFFECTS, EVEN DEATH.
SKIN CORROSION/IRRITATION	BRIEF CONTACT MAY CAUSE SKIN BURNS. SYMPTOMS MAY INCLUDE PAIN, SEVERE LOCAL REDNESS AND TISSUE DAMAGE
SERIOUS EE DAMAGE/EYE IRRITATION	MAY CAUSE SEVERE IRRITATION WITH CORNEAL INJURY WHICH MAY RESULT IN PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS. CHEMICAL BURNS MAY OCCUR. VAPOR MAY CAUSE LACRIMATION (TEARS)
SENSITIZATION	SKIN CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION. A COMPONENT IN THE MIXTURE HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS. CONTAINS COMPONENT(S) WHICH HAVE CAUSED ALLERGIC SKIN SENSITIZATION IN GUINEA PIGS. CONTAINS COMPONENT(S) WHICH HAVE DEMONSTRATED THE POTENTIAL FOR CONTACT ALLERGY IN MICE.
	FOR RESPIRATORY SENSITIZATION: NO RELEVANT DATA FOUND.
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	EVALUATION OF AVAILABLE DATA SUGGESTS THAT THIS MATERIAL IS NOT A STOT-SE TOXICANT.

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	FOR THE COMPONENT(S) TESTED: IN ANIMALS, EFFECTS HAVE BEEN REPORTED ON THE FOLLOWING ORGANS: CENTRAL NERVOUS SYSTEM MUSCLES THYMUS URINARY TRACT RESPIRATORY TRACT LIVER KIDNEY GASTROINTESTINAL TRACT TESTES
CARCINOGENICITY	CONTAINS COMPONENT(S) WHICH DO NOT CAUSE CANCER IN LABORATORY ANIMALS.
TERATOGENICITY	BASED ON INFORMATION FOR COMPONENT(S): HAS CAUSED BIRTH DEFECTS IN LABORATORY ANIMALS ONLY AT DOSES TOXIC TO THE MOTHER. HAS BEEN TOXIC TO THE FETUS IN LABORATORY ANIMALS AT DOSES TOXIC TO THE MOTHER. DID NOT CAUSE BIRTH DEFECTS IN THE FETUS EVEN AT DOSES WHICH CAUSED TOXIC EFFECTS IN THE MOTHER.
REPRODUCTIVE TOXICITY	IN A THREE-GENERATION REPRODUCTION STUDY IN RATS, NONYLPHENOL DID NOT INTERFERE WITH STANDARD REPRODUCTIVE PARAMETER. HOWEVER, SOME ADDITIONAL ENDPOINTS WHICH ARE CONSIDERED MARKERS OF POTENTIAL REPRODUCTIVE TOXICITY WERE AFFECTED AT HIGHER DOSES THAT PRODUCED SYSTEMIC TOXICITY TO THE PARENT ANIMALS. CONTAINS COMPONENT(S) WHICH DID NOT INTERFERE WITH FERTILITY IN ANIMAL STUDIES. CONTAINS COMPONENT(S) WHICH DID NOT INTERFERE WITH REPRODUCTION IN ANIMALS STUDIES.
MUTAGENICITY	CONTAINS COMPONENT(S) WHICH WERE NEGATIVE IN SOME IN VITRO GENETIC TOXICITY STUDIES AND POSITIVE IN OTHERS. CONTAINS A COMPONENT(S) WHICH WERE NEGATIVE IN THE IN VITRO GENETIC TOXICITY STUDIES. CONTAINS COMPONENTS(S) WHICH WERE NEGATIVE IN ANIMAL GENETIC TOXICITY STUDIES.
ASPIRATION HAZARD	BASED ON PHYSICAL PROPERTIES, NOT LIKELY TO BE AN ASPIRATION HAZARD.
COMPONENTS INFLUENCING TOXICOLOGY	
BENZYL ALCOHOL	ACUTE DERMAL TOXICITY LD50, RABBIT, >2,000 mg/kg. NO DEATHS OCCURRED AT THIS CONCENTRATION. ACUTE INHALATION TOXICITY LC50, RAT, 4 HOURS, VAPOUR, 11 mg/l

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (ISOPHORONEDIAMINE)	ACUTE DERMAL TOXICITY LD50, RATE, MALE AND FEMALE, >2,000 mg/kg. NO DEATHS OCCURRED AT THIS CONCENTRATION.
	ACUTE INHALATION TOXICITY LC50, RAT, 4 HOUR, DUST/MIST, > 5.01 mg/l
1,3 BENZENE DIMETHANAMINE	ACUTE DERMAL TOXICITY LD50, RAT, >3,100 mg/kg. NO DEATHS OCCURRED AT THIS CONCENTRATION.
	ACUTE INHALATION TOXICITY PROLONGED EXCESSIVE EXPOSURE MAY CAUSE SERIOUS ADVERSE EFFECTS, EVEN DEATH. EXCESSIVE EXPOSURE MAY CAUSE SEVERE IRRITATION TO UPPER RESPIRATORY TRACT (NOSE AND THROAT) AND LUNGS. SALIVATION
	LC50, RAT, 4 HOUR, DUST/MIST, 1.34 mg/l
1,3 BENZENE DIMETHANAMINE, POLYMER WITH 2,2-[(1-METHYLETHYLIDENE) BIS (4,1-PHENYLENEOXYMETHYLENE)] BIS [OXIRANE]	ACUTE DERMAL TOXICITY THE DERMAL LD50 HAS NOT BEEN DETERMINED.
	ACUTE INHALATION TOXICITY LC50 HAS NOT BEEN DETERMINED.
4-NONYLPHENOL, BRANCHED	ACUTE DERMAL TOXICITY LD50, RABBIT, 2,031 – 2,831 mg/kg
	ACUTE INHALATION TOXICITY LC50 MOUSE, FEMALE, VAPOUR, > 3.636 mg/l
SALICYLIC ACID	ACUTE DERMAL TOXICITY LD50, RAT, > 2,000 mg/kg ESTIMATED.
	ACUTE INHALATION TOXICITY LC50 HAS NOT BEEN DETERMINED.
BENZYL DIMETHYLAMINE	ACUTE DERMAL TOXICITY LD50, RAT, MALE, 1,477 mg/kg
	ACUTE INHALATION TOXICITY LC50, RAT, MALE AND FEMALE, 4 HOUR VAPOUR, 2.05 mg/l

SECTION XII ECOLOGICAL INFORMATION

TOXICITY	
ENXYL ALCOHOL	ACUTE TOXICITY TO FISH MATERIAL IS PRACTICALLY NON-TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50/EL50/LL50 > 100 mg/L IN MOST SENSITIVE SPECIES TESTED). LC50, PIMEPHALES PROMELAS (FATHEAD MINNOW). STATIC, 96 HOUR, 460 mg/l METHOD NO SPECIFIED.
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES. EC50, DAPHNIA MAGNA (WATER FLEA), 48 HOURS, 230 mg/l OECD TEST GUIDELINE 202
	ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS EC50, PSEUDOKIRCHNERIELLA SUBCAPITATA)GREEN ALGAE), STATIC, 72 HOUR, GROWTH RATE, 770 mg/l. OECD TEST GUIDELINE 201
	TOXICITY TO BACTERIA EC50, ACTIVATED SLUDGE, RESPIRATION INHIBITION, 49

	HOUR, RESPIRATION RATES, 2,100 mg/l, OECD 209 TEST.
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES NOEC, DAPHNIA MAGNA, SEMI-STATIC TEST, 21 D, 51 mg/l
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (ISOPHORONEDIAMINE)	ACUTE TOXICITY TO FISH MATERIAL IS LIGHTLY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS. (LC50/EC50 BETWEEN 10 AND 100 mg/l IN THE MOST SENSITIVE SPECIES TESTED).
	LC50. LEUCISCUS IDUS (GOLDEN ORFE), SEMI-STATIC TEST 96 HOUR, 110 mg/l
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES EC50, DAPHNIA MAGNA (WATER FLEA), STATIC, 48 HOUR, 23 mg/l, OECD TEST GUIDELINE 202 OR EQUIVALENT.
	TOXICITY TO BACTERIA EC10, BACTERIA, 18 HOUR, 1,120 mg/l
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES NOEC DAPHNIA MAGNA (WATER FLEA), 21 D, NUMBER OF OFFSPRING, 3 mg/l
1,3 BENZENE DIMETHANAMINE	ACUTE TOXICITY TO FISH MATERIAL IS SLIGHTLY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 10 AND 100 mg/l IN THE MOST SENSITIVE SPECIES TESTED).
	LC50, LEUCISCUS IDUS (GOLDEN ORFE) 96 HOUR, 75 mg/l
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES EC50, DAPHNIA MAGNA (WATER FLEA) STATIC TEST 48 HOUR, 15.2 mg/l OECD TEST GUIDELINE 202 OR EQUIVALENT
	ACUTE TOXICITY TO ALGAE /AQUATIC PLANTS EC50, ALGA SCENEDESMUS SP STATIC TEST, 72 HOUR BIOMASS, 12 mg/l OECD TEST GUIDELINE 201 OR EQUIVALENT
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES NOEC, DAPHNIA MAGNA (WATER FLEA) 21 D, NUMBER OF OFFSPRING 4.7 mg/l
1,3-BENZENE DIMETHANAMINE, POLYMER WITH 2,2'-[(1-METHYLETHYLIDENE) BIS (4,1-PHENYLENEOXYMETHYLENE)] BIS [OXIRANE]	ACUTE TOXICITY TO FISH MATERIAL IS MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 1 AND 10 mg/l IN THE MOST SENSITIVE SPECIES TESTED).
	LL50, RAINBOW TROUT (ONCORHYNCHUS MYKISS) STATIC TEST, 96 HOUR, 64 mg/l OECD TEST GUIDELINE 203 OR EQUIVALENT.
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES EL50, DAPHNIA MAGNA (WATER FLEA), STATIC TEST 48 HOUR, 1.46 mg/l OECD TEST GUIDELINE 202 OR EQUIVALENT.
	ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS. EL50 PSEUDOKIRCHNERIELLA

	SUBCAPITATA (GREEN ALGAE) STATIC TEST, 72 HOUR, CELL YIELD INHIBITION, > 30 mg/l OECD TEST GUIDELINE 201 OR EQUIVALENT.
	TOXIC TO BACTERIA
	EC50 ACTIVATED SLUDGE, AEROBIC, 3 HOUR RESPIRATION RATES, 88.9 mg/l ACTIVATED SLUDGE TEST (OECD 209)
4-NONYPHENOL, BRANCHED	ACUTE TOXICITY TO FISH
	MATERIAL IS HIGHLY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 0.1 AND 1 mg/l IN THE MOST SENSITIVE SPECIES TESTED)
	LC50, PIMEPHALES PROMELAS (FATHEAD MINNOW) FLOW-THROUGH TEST, 96 HOUR 0.135 mg/l OECD TEST GUIDE LINE 203 OR EQUIVALENT.
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES
	EC50, DAPHNIA MAGNA (WATER FLEA) 48 HOUR, 0.14 mg/l DIRECTIVE 84/449/EEC, C.2
	ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS.
	EC50 ALGA SCENEDESMUS SP. 72 HOURD BIOMASS, 1.3 mg/l METHOD NOT SPECIFIED.
	CHRONIC TOXICITY TO FISH
	NOEC PIMEPHALES PROMELAS (FATHEAD MINNOW) FLOW THROUGH TEST 33 D, SURVIVAL 0.0074 mg/l
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES
NOEC, DAPHNIA MAGNA (WATER FLEA) SEMI-STATIC TEST 21 D NUMBER OF OFFSPRING, 0.024 mg/l	
SALICYLIC ACID	ACUTE TOXICITY TO FISH
	MATERIAL IS SLIGHTLY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 10 AND 100 mg/l IN THE MOST SENSITIVE SPECIES TESTED).
	LC50 EMERALD SHINER (NOTROPIS ATERINOIDES), 96 HOUR >150 mg/l METHOD NOT SPECIFIED
	LC50 LEUCISCUS IDUS (GOLDEN ORFE) STATIC TEST, 48 HOUR 90 mg/l METHOD NOT SPECIFIED.
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES.
	LC50, DAPHNIA MAGNA (WATER FLEA). 24 HOUR, 105-230 mg/l METHOD NOT SPECIFIED.
TOXIC TO BACTERIA	
EC50, ACTIVATED SLUDGE, 3 HOUR, >3,200 mg/l OECD 209 TEST.	
BENZYL DIMETHYLAMINE	ACUTE TOXICITY TO FISH
	MATERIAL IS MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 1 AND 10 mg/l IN THE MOST SENSITIVE SPECIES TESTED).
	MAY INCREASE pH OF AQUATIC SYSTEMS TO > pH10 WHICH MAY BE TOXIC TO AQUATIC ORGANISMS.
	LC50 PIMEPHALES PROMELAS (FATHEAD MINNONS) FLOW THROUGH TEST, 96 HOUR, 37.8 mg/l

	OECD TEST GUIDELINE 203 OR EQUIVALENT.
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES
	EC50 DAPHNIA MAGNA (WATER FLEA) STATIS TEST, 48 HOUR, >100 mg/l OECD TEST GUIDELINE 202 OR EQUIVALENT
	ACUTE TOXICITY TO ALGAE/ AQUATIC PLANTS
	ERC50, DESMODESMUS SUBSPICATUS (GREEN ALGAE) STATIC TEST, 72 HOUR, GROWTH RATE INHIBITION, 1.34 mg/l
	TOXIC TO BACTERIA
	EC50 PSEUDOMONAS PUTIDA, GROWTH INHIBITION, 17 HOUR GROTH INHIBITION, 534 mg/l DIN 38412
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES.
	NOEC DAPHNIC MAGNA (WATER FLEA) SEMI-STATIC TEST 21 DAY NUMBER OF OFFSPRING, 0.789 mg/l
	LOEC, DAPHNIA MAGNA (WATER FLEA), SEMI-STATIC, 21D NUMBER OF OFFSPRING 2.622 mg/l
PERSISTENCE OF DEGRADABILITY	
BENZYL ALCOHOL	BIODEGRADABILITY: MATER IS READILY BIODEGRADABLE. PASSES OECD TEST(S) FOR READY BIODEGRADABILITY
	10DAY WINDOW: NA
	BIODEGRADATION: 92-96%
	EXPOSURE TIME: 14D
	METHOD: OECD TEST GUIDELINE 301C OR EQUIVALENT
	THEORETICAL OXYGEN DEMAND: 2.52 mg/l
	PHOTO DEGRADATION
	TEST TYPE: HALF-LIFE (INDIRECT PHOTOLYSIS)
SENSITIZER: OH RADICALS.	
ATMOSPHERIC HALF-LIFE: 1.296D	
METHOD: ESTIMATED.	
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (ISOPHORONEDIAMINE)	BIODEGRADABILITY: MATERIALS EXPECTED TO BIODEGRADE VERY SLOWLY (IN THE ENVIRONMENT). FAILS TO PASS OECD/EEC TEST FOR READILY BIODEGRADABILITY
	10 DAY WINDOW: FAIL
	BIODEGRADATION: 8%
	EXPOSURE TIME: 28 D
	METHOD: OECD TEST GUIDELINE 301A OR EQUIVALENT
	10-DAY WINDOW: NA
	BIODEGRADATION: 42%
	EXPOSURE TIME: 3 HOURS
	METHOD: OECD TEST GUIDELINE 303a OR EQUIVALENT.
THEORETICAL OXYGEN DEMAND: 3.38 mg/l	
PHOTO DEGRADATION	
TEST TYPE: HALF LIFE (INDIRECT PHOTOLYSIS)	
SENSITIZER: OH RADICALS	
ATMOSPHERIC HALF-LIFE: 0.126D	
METHOD: ESTIMATED.	

1,3-BENZENEDIMETHANAMINE	BIODEGRADABILITY: MATERIAL IS INHERENTLY BIODEGRADABLE (REACHED >20% BIODEGRADATION IN OECD TEST(S) FOR INHERENT BIODEGRADABILITY). BASED ON STRINGENT OECD TEST GUIDELINES, THIS MATERIAL CANNOT BE CONSIDERED AS READILY BIODEGRADABLE; HOWEVER, THESE RESULTS DO NOT NECESSARILY MEAN THAT THE MATERIAL IS NOT BIODEGRADABLE UNDER ENVIRONMENTAL CONDITIONS.
	10-DAY WINDOW: NA
	BIODEGRADATION: 22%
	EXPOSURE TIME: 28D
	METHOD: OECD TEST GUIDELINE 302C OR EQUIVALENT
	10-DAY WINDOW: FAIL
	BIODEGRADATION: 49%
	EXPOSURE TIME: 28D
	METHOD: OECD TEST GUIDELINE 301b OR EQUIVALENT
	THEORETICAL OXYGEN DEMAND: 3.17 mg/l
	PHOTO DEGRADATION: TEST TYPE: HALF-LIFE (INDIRECT PHOTOLYSIS) SENSITIZER: OH RADICALS. ATMOSPHERIC HALF-LIFE: 0.15 D METHOD: ESTIMATED
1,3 BENZENE DIMETHANAMINE, POLYMER WITH 2,2-[(1-METHYLETHYLIDENE)BIS (4,1-PHENYLENE OXYMETHYLENE)] BIS [OXIRANE]	BIODEGRADABILITY: MATERIAL IS NOT READILY BIODEGRADABLE ACCORDING TO OECD/EEC GUIDELINES.
	10-DAY WINDOW: FAIL
	BIODEGRADATION: 0%
	EXPOSURE TIME: 28 D
	METHOD: OECD TEST GUIDELINE 301f OR EQUIVALENT.
4-NONYLPHENOL, BRANCHED	BIODEGRADABILITY: BASED ON STRINGENT OECD TEST GUIDELINES, THIS MATERIAL CANNOT BE CONSIDERED AS READILY BIODEGRADABLE; HOWEVER, THESE RESULTS DO NOT NECESSARILY MEAN THAT THE MATERIAL IS NOT BIODEGRADABLE UNDER ENVIRONMENTAL CONDITIONS.
	10-DAY WINDOW: FAIL.
	BIODEGRADATION: 48.2%
	EXPOSURE TIME: 35 D
	METHOD: OECD TEST GUIDELINE 301B OR EQUIVALENT
	THEORETICAL OXYGEN DEMAND: 3.29 mg/mg
	PHOTO DEGRADATION TEST TYPE: HALF-LIFE (INDIRECT PHOTOLYSIS) SENSITIZER: OH RADICALS ATMOSPHERIC HALF-LIFE: 0.207 D METHOD: ESTIMATED.

SALICYLIC ACID	BIODEGRADABILITY: MATERIAL IS READILY BIODEGRADABLE. PASSES OECD TEST(S) FOR READY BIODEGRADABILITY.	
	10-DAY WINDOW: NA	
	BIODEGRADATION: 88.1%	
	EXPOSURE TIME: 14 D	
	METHOD: OECD TEST GUIDELINE 301C OR EQUIVALENT.	
	THEORETICAL OXYGEN DEMAND: 1.62 mg/mg	
	PHOTO DEGRADATION TEST TYPE: HALF-LIFE (INDIRECT PHOTOLYSIS) SENSITIZER: OH RADICALS. ATMOSPHERIC HALF-LIFE: 0.823 D METHOD: ESTIMATED.	
	BENZYL DIMETHYLAMINE	BIODEGRADABILITY: MATERIAL IS EXPECTED TO BIODEGRADE VERY SLOWLY (IN THE ENVIRONMENT). FAILS TO PASS OECD/EEC TEST FOR READY BIODEGRADABILITY. MATERIAL IS ULTIMATELY BIODEGRADABLE (REACHES >70% MINERALIZATION IN OECD TEST(S) FOR INHERENT BIODEGRADABILITY).
		10-DAY WINDOW: NA
BIODEGRADATION: 0 – 2%		
EXPOSURE TIME: 28 D		
METHOD: OECD TEST GUIDELINE 301C OR EQUIVALENT.		
10-DAY WINDOW: NA		
BIODEGRADATION: 90-100%		
EXPOSURE TIME: 12D		
METHOD: OECD TEST GUIDELINE 302B OR EQUIVALENT.		
THEORETICAL OXYGEN DEMAND: 3.20 mg/mg		
PHOTO DEGRADATION TEST TYPE: HALF-LIFE (INDIRECT PHOTOLYSIS) SENSITIZER: OH RADICALS ATMOSPHERIC HALF-LIFE: 0.130 D METHOD: ESTIMATED.		
BIOACCUMULATIVE POTENTIAL		
BENZYL ALCOHOL	BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS LOW (BCF <100 OR LOG POW <3).	
	PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 1.10 MEASURED.	
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (ISOPHORONEDIAMINE)	BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS LOW (BCF <100 OR LOG POW <3).	
	PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 0.79 MEASURED.	
1,3- BENEZENEDIMETHANAMINE	BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS LOW (BCF <100 OR LOG POW <3).	
	PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 0.18 OECD TEST GUIDELINE 107 OR EQUIVALENT.	





1,3-DENZENEDIMETHANAMINE, POLYMER WITH 2,2-[1-METHYLETHYLIDENE) BIS (4,1-PHENYLENEOXYMETHYLENE)] BIS [OXIRAN]	<p>BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS LOW (BCF <100 OR LOG POW <3).</p> <p>PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 3.6 AT 25°C</p> <p>BIOCONCENTRATION FACTOR (BCF): 4.77 FISH ESTIMATED.</p>
4-NONYLPHENOL, BRANCHED	<p>BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS HIGH (BCF >3000 OR LOG POW BETWEEN 5 AND 7).</p> <p>PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 5.4 AT 23°C OECD GUIDELINE 117 (PARTITION COEFFICIENT (N-OCTANOL/WATER), HPLC METHOD).</p> <p>BIOCONCENTRATION FACTOR (BCF): 271 PIMEPHALES PROMELAS (FATHEAD MONNOWS) 20 D MEASURED.</p>
SALICYLIC ACID	<p>BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS LOW (BCF <100 LOG POW <3)</p> <p>PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 2.26 MEASURED.</p>
BENZYL DIMETHYLAMINE	<p>BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS LOW (BCF <100 OR LOG POW <3)</p> <p>PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 1.98 MEASURED.</p>
	<p>BIOCONCENTRATION FACTOR (BCF): <= 22 CYPRINUS CARPIO (CARP) 42 DAY MEASURED.</p>
MOBILITY IN SOIL	
BENZYL ALCOHOL	<p>POTENTIAL FOR MOBILITY I SOIL IS VERY HIGH (KOC BETWEEN 0 AND 50).</p> <p>GIVEN ITS VERY LOW HENRY'S CONSTANT, VOLATILIZATION FROM NATURAL BODIES OF WATER OR MOIST SOIL IS NOT EXPECTED TO BE AN IMPORTANT FATE PROCESS.</p> <p>PARTITION COEFFICIENT (KOC): 16 ESTIMATED.</p>
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (ISOPHORONEDIAMINE)	<p>POTENTIAL FOR MOBILITY IN SOIL IS MEDIUM (KOC BETWEEN 150 AND 500)</p> <p>GIVEN ITS VERY LOW HENRY'S CONSTANT, VOLATILIZATION FROM NATURAL BODIES OF WATER OR MOIST SOIL IS NOT EXPECTED TO BE AN IMPORTANT FATE PROCESS.</p> <p>PARTITION COEFFICIENT (KOC): 340 ESTIMATED.</p>
1,3-BENZENEDIMETHANAMINE	<p>POTENTIAL FOR MOBILITY IN SOIL IS LOW (KOC BETWEEN 500 AND 2000).</p> <p>GIVEN ITS VERY LOW HENRY'S CONSTANT, VOLATILIZATION FROM NATURAL BODIES OF WATER OR MOIST SOIL IS NOT EXPECTED TO BE AN IMPORTANT FATE PROCESS.</p> <p>PARTITION COEFFICIENT (KOC): >910 ESTIMATED.</p>
1,3-BENZENEDIMETHANAMINE, POLYMER WITH 2,2-[1-METHYLETHYLIDENE) BIS (4,1-PHENYLENEOXYMETHYLENE)] BIS [OXIRANE]	<p>EXPECTED TO BE RELATIVELY IMMOBILE IN SOIL (KOC >5000)</p> <p>PARTITION COEFFICIENT (KOC): > 5000 OECD 121: HPLC METHOD</p> <p>ADSORPTION/SOIL SOIL</p>

4-NONYLPHENOL, BRANCHED	<p>EXPECTED TO RELATIVELY IMMOBILE IN SOIL (KOC >5000)</p> <p>PARTITION COEFFICIENT (KOC): >5000 ESTIMATED.</p>
SALICYLIC ACID	<p>POTENTIAL FOR MOBILITY IN SOIL IS VERY HIGH (KOC BETWEEN 0 AND 50).</p> <p>GIVEN ITS VERY LOW HENRY'S CONSTANT, BOLATILIZATION FROM NATURAL BODIES OF WATER OR OIST SOIL IS NOT EXPECTED TO BE AN IMPORTANT FATE PROCESS.</p> <p>PARTITION COEFFICIENT (KOC): 24 ESTIMATED.</p>
BENZYL DIMETHYLAMINE	<p>POTENTIAL FOR MOBILITY IN SOIL IS LOW (KOC BETWEEN 500 AND 2000)</p> <p>PARTITION COEFFICIENT (KOC): 630 ESTIMATED.</p>

SECTION XIII DISPOSAL CONSIDERATIONS

<p>WASTE DISPOSAL METHOD: IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, FEDERAL, STATE, AND LOCAL REGULATIONS. TREATMENT, TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA, 40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.</p> <p>AQUATIC TOXICITY (E.G. 96HR.TLM): DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATERS OR WATERWAYS UNLESS AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA)</p>
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SECTION XIV TRANSPORTATION INFORMATION

Governing Body	Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group
DOT	GROUND	2735	AMINES, LIQUID, CORROSIVE N.O.S. (ISOPHORONEDIAMINE, 1,3-BENZENEDIMETHANAMINE)	 8	III
IATA	AIR	2735	AMINES, LIQUID, CORROSIVE N.O.S. (ISOPHORONEDIAMINE, 1,3-BENZENEDIMETHANAMINE)	 8	III
IMDG	OCEAN	2735	AMINES, LIQUID, CORROSIVE N.O.S. (ISOPHORONEDIAMINE, 1,3-BENZENEDIMETHANAMINE)	 8	III
MARINE POLLUTANT:		THIS PRODUCT DOES CONTAIN A MATERIAL. ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B)			
		4-NONYLPHENOL, BRANCHED			

SECTION XV REGULATORY INFORMATION

<p>CERCLA: IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 1-800-424-8802 or 202-426-2675. NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT</p>
<p>SARA TITLE III: UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: ACUTE HEALTH HAZARD</p>
<p>ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)</p>
<p>PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT: THE FOLLOWING CHEMICALS ARE LISTED BECAUSE OF THE ADDITIONAL REQUIREMENTS OF PENNSYLVANIA LAW: BENZYL ALCOHOL, 100-51-6, 1,3-BENZENEDIMETHAAMINE 1477-55-0</p>
<p>MARINE POLLUTANTS: YES. THIS PRODUCT DOES CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B). 4-NONYLPHENOL, BRANCHED</p>
<p>CALIFORNIA PROP 65: WARNING: This product DOES NOT contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. (Epichlorohydrin, Ethylbenzene, Crystalline Silica particles of respirable size)</p>
<p>CERCLA / RQ: THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A):</p>
<p>TSCA: IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? YES</p>

SECTION XVI OTHER INFORMATION

PREPARED BY	DARRYL MANUEL / PRESIDENT
COMPANY:	VEXCON CHEMICALS, INC.
ADDRESS:	7240 STATE RD., PHILA., PA 19135 USA
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE. VEXCON PROVIDES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.	

<p>HMIS HAZARD RATINGS: THIS INFORMATION IS FOR PEOPLE TRAINED IN: NATIONAL PAINT AND COATINGS ASSOCIATIONS (NPCA) HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704) IDENTIFICATION OF FIRE HAZARDS OF MATERIALS</p>			<p>KEY 4 -- SEVERE</p>
<p>PROCOAT HBE SYSTEM PART A CLEAR</p>	<p>NPCA-HMIS</p>	<p>NFPA 704</p>	
<p>HEALTH</p>	<p>3</p>	<p>3</p>	<p>2 -- MODERATE</p>
<p>FLAMMABILITY</p>	<p>1</p>	<p>1</p>	<p>1 -- SLIGHT</p>
<p>REACTIVITY</p>	<p>0</p>	<p>0</p>	<p>0 -- MINIMAL</p>



HAZARD RATING
4=EXTREME
3=HIGH
2=MODERATE
1=SLIGHT
0=INSIGNIFICANT

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0


SAFETY DATA SHEET
VEXCON NO. CP202
**PROCOAT HBE SYSTEM
PART B CLEAR**

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION: PROCOAT HBE SYSTEM – Part B CLEAR	
VOC CONTENT:	PART A ONLY: <100 PART B ONLY: 0 AS APPLIED: <50
CATEGORY:	INDUSTRIAL MAINTENANCE COATING
COMMON NAME:	EPOXY RESIN COATING
MANUFACTURER:	VEXCON CHEMICALS, INC
ADDRESS	7240 STATE RD, PHILADELPHIA, PA 19135
EMERGENCY NO:	800.858.2828 (PolySat Inc)
TELEPHONE NO:	215.332.7709 (Vexcon)
CHEMTREC NO:	800.424.9300 (CCN# 23822)
PREPARED:	NOVEMBER 2016
UPDATED:	AUGUST 2017
PREPARED BY:	DARRY F. MANUEL , PRESIDENT

SECTION II – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION



- Irritant
- Dermal Sensitizer
- Acute Toxicity
- Narcotic Effects
- Respiratory Tract Irritation

SKIN IRRITATION – CATEGORY 2
EYE IRRITATION – CATEGORY 2A
SKIN SENSITIZATION – CATEGORY 1
SINGLE WORD: WARNING
HAZARDS: CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.
PRECAUTIONARY STATEMENTS
PREVENTION: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY. WASH SKIN THOROUGHLY AFTER HANDLING. CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORK PLACE. WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
RESPONSE: IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES. IF PRESENT AND EASY TO DO. CONTINUE RINSING.
IF SKIN IRRITATION OR RASH OCCURS. GET MEDICAL ADVICE/ATTENTION. IF EYE IRRITATION PERSISTS; GET MEDICAL ADVICE ATTENTION. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

SECTION III HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
BISPHENOL A / EPICHLOROHYDRIN EPOXY RESIN	25068-38-6	75-85 %	NONE ESTABLISHED	3082 (Environmentally hazardous substance, liquid, n.o.s.) HMIS 1-1-2

SECTION IV FIRST AID MEASURES

HEALTH HAZARD DATA HAZARD CLASSIFICATION BASIS FOR CLASSIFICATION SOURCE

ROUTES OF EXPOSURE:	
INHALATION:	VAPOR INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA OR HEADACHE.
SKIN CONTACT:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
SKIN ABSORPTION:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT.
EYE CONTACT:	THIS PRODUCT MAY BE AN EYE IRRITANT.
INGESTION / INHALATION	CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING. SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION, OR FROM VOMITING, MAY CAUSE BRONCHOPNEUMONIA OR PULMONARY EDEMA. DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
EFFECTS OF OVEREXPOSURE:	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS. LIQUIDS MODERATELY IRRITATING ON SKIN AND EYES.
ACUTE OVEREXPOSURE:	ANESTHESIA, HEADACHE, NAUSEA, DIZZINESS: MODERATE IRRITATION BY LIQUID TO SKIN AND EYES. PROLONGED CONTACT ON THE SKIN WILL CLAY AND DEFAT THE SKIN POSSIBLY CAUSING DERMATITIS.
EMERGENCY AND FIRST AID PROCEDURES:	
EYES:	FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION. CONSULT A PHYSICIAN.
SKIN:	WASH WITH SOAP AND LARGE QUANTITIES OF WATER. SEEK MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS AND PERSISTS.
INHALATION:	MOVE TO LOCATION FREE FROM VAPORS. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION.
INGESTION:	DO NOT INDUCE VOMITING; SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION V FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	EXCLUDE AIR. FIRES INVOLVING THIS PRODUCT MAY BE CONTROLLED BY REGULAR FOAM, CARBON DIOXIDE, DRY CHEMICALS OR WATER SPRAY. WATER MAY BE USED TO REDUCE THE RATE OF BURNING AND FOR COOLING PURPOSES. AVOID SPRAYING WATER DIRECTLY INTO STORAGE CONTAINERS DUE TO DANGER OF BOIL OVER. DO NOT USE DIRECT WATER STREAM. MAY SPREAD FIRE.
GENERAL HAZARD:	CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASH POINT. SMOKE MAY CONTAIN THE ORIGINAL MATERIAL IN ADDITION TO COMBUSTION PRODUCTS OF VARYING COMPOSITION WHICH MAY BE TOXIC AND/OR IRRITATING. COMBUSTION PRODUCTS MAY INCLUDE AND ARE NOT LIMITED TO: PHENOLICS. CARBON MONOXIDE, CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARD:	CONTAINER MAY RUPTURE FORM GAS GENERATION IN A FIRE SITUATION. VIOLENT STEAM GENERATION OR ERUPTION MY OCCUR UPON APPLICATION OF DIRECT WATER STREAM TO HO LIQUIDS. DENSE SMOKE IS EMITTED WHEN BURNED WITHOUT SUFFICIENT OXYGEN.
SPECIAL FIRE FIGHTING PROCEDURES	THE USE OF SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE PIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE SHOULD BE PROVIDED FOR FIRE FIGHTERS IN BUILDINGS OR CONFINED AREAS WHERE THIS PRODUCT IS STORED. STORAGE CONTAINERS EXPOSED TO FIRE SHOULD BE KEPT COOL WITH WATER SPRAY IN ORDER TO PREVENT PRESSURE BUILD UP. USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL. ISOLATE "FUEL" SUPPLY FROM FIRE. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

SECTION VI ACCIDENTAL RELEASE MEASURES

AQUATIC TOXICITY (E.G. 96HR.TLM): DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATERS OR WATERWAYS UNLESS AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA)
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: LAND SPILL: ELIMINATE SOURCES OF IGNITION. PREVENT ADDITIONAL DISCHARGE OF MATERIAL. IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS, IMPLEMENT CLEANUP PROCEDURES. FOR LARGE SPILL, IMPLEMENT CLEAN UP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. ALSO, IF THIS PRODUCT IS SUBJECT TO CERCLA REPORTING NOTIFY THE NATIONAL RESPONSE CENTER. PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, OR LOW AREAS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. RECOVER BY PUMPING (USE AN EXPLOSION PROOF OR HAND PUMP) OR WITH A SUITABLE ABSORBENT. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS. WATER SPILL: REMOVE FROM SURFACE BY SKIMMING OR WITH SUITABLE ABSORBENTS. IF ALLOWED BY LOCAL AUTHORITIES AND ENVIRONMENTAL AGENCIES, SINKING AND/OR SUITABLE DISPERSANTS MAY BE USED IN NON-CONFINED WATERS. CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO EPA, FEDERAL, STATE, AND LOCAL DISPOSAL REGULATIONS.

SECTION VII HANDLING AND STORAGE

PRECAUTIONARY STATEMENTS: PERSONNEL SHOULD AVOID INHALATION OF VAPORS. PERSONAL CONTACT WITH THE PRODUCT SHOULD BE AVOIDED. SHOULD CONTACT BE MADE, REMOVE SATURATED APPAREL AND FLUSH AFFECTED BODY AREAS WITH WATER. CLOTHING MUST BE WASHED AND DRIED BEFORE REUSE. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE (VAPOR, LIQUID AND/OR SOLID). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.
FIRE FIGHTING: WATER MAY BE UNSUITABLE AS AN EXTINGUISHING MEDIUM BUT HELPFUL IN KEEPING ADJACENT CONTAINERS COOL. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES. PERSONNEL SHOULD AVOID INHALATION OF VAPORS.

OTHER HANDLING AND STORAGE REQUIREMENTS: STORE AND USE IN WELL VENTILATED AREA, EQUIVALENT TO FRESH AIR. KEEP CONTAINERS COOL, DRY, AND AWAY FROM SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED. DO NOT STORE WITH INCOMPATIBLE MATERIALS. STORE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT STORE OR CONSUME FOOD, DRINK, OR TOBACCO IN AREAS WHERE THEY MAY BECOME CONTAMINATED WITH THIS MATERIAL. KEEP AWAY FROM HIGH TEMPERATURES, OPEN FLAMES, SPARKS, SOURCES OF IGNITION, ETC. USE WITH EXPLOSION PROOF EQUIPMENT IS HIGHLY ADVISABLE.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION REQUIREMENTS: LOCAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR CONCENTRATIONS WITHIN SPECIFIED TIME-WEIGHTED TLV RANGES. IF LOCAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. OTHER SPECIAL PRECAUTIONS SUCH AS RESPIRATORY MASKS OR ENVIRONMENTAL CONTAINMENT DEVICES MAY BE REQUIRED IN EXTREME CASES.
RESPIRATORY (SPECIFY IN DETAIL): THE USE OF RESPIRATORY PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE THE TIME WEIGHTED TLV: USE OF OSHA APPROVED CARTRIDGE RESPIRATOR OR GAS MASK OR AIR-PACK. CHEMICAL CARTRIDGE RESPIRATOR: HALF MASK ORGANIC VAPOR CARTRIDGE. FULL FACE ORGANIC VAPOR CARTRIDGE IF EYE PROTECTION IS NEEDED.
EYES: CHEMICAL GOGGLES AND/OR FACE SHIELD ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY.
GLOVES: THE USE OF IMPERMEABLE GLOVES IS ADVISED TO PREVENT SKIN IRRITATION IN SENSITIVE INDIVIDUALS. IMPERVIOUS GLOVES, (CHEMICAL RESISTANT) SUCH AS NEOPRENE, LATEX OR PVA.
OTHER CLOTHING AND EQUIPMENT: TO PREVENT BODY CONTACT, IMPERVIOUS CLOTHING AND BOOTS ARE RECOMMENDED. IMPERVIOUS APRONS AND HELMETS (HEAD COVER) ARE RECOMMENDED WHEN WORKING WITH THIS PRODUCT. THE AVAILABILITY OF EYE WASHES AND SAFETY SHOWERS IN WORK AREAS IS RECOMMENDED.

SECTION IX PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: (760mmHg) 320° C / 608° F	MELTING/FREEZING POINT: N/A
VAPOR PRESSURE: N/A	VAPOR DENSITY (AIR=1): N/A
SOLUBILITY IN H2O % BY WT: LOW SOLUBILITY	% VOLATILES BY VOL: 0%
EVAPORATION RATE (BuAc=1): N/A	REALITIVE DENSITY (H2O=1) 1.158
pH (AS IS): N/A	pH (1% SOLN): N/A
APPEARANCE AND ODOR:	CLEAR OR PIGMENTED LIQUID WITH SLIGHT ODOR
FLASH POINT: (TEST METHOD)	264-268° C / 507-514° F CC
AUTOIGNITION TEMP:	N/A
FLAMMABLE LIMITS IN AIR, % BY VOL:	N/A

SECTION X STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY:	THIS PRODUCT IS STABLE.
INCOMPATIBILITY:	THIS PRODUCT IS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS OR BASES, AND SELECTED AMINES.
HAZARDOUS DECOMPOSITION PRODUCTS:	THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON MONOXIDE AND/OR CARBON DIOXIDE, AND UNIDENTIFIED ORGANICS.
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:	N/A WILL NOT OCCUR

SECTION XI TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	ACUTE ORAL TOXICITY – VERY LOW TOXICITY IF SWALLOWED. HARMFUL EFFECTS NOT ANTICIPATED FROM SWALLOWING SMALL AMOUNTS. LD50, RAT >15,000 mg/kg
	ACUTE DERMAL TOXICITY – PROLONGED SKIN CONTACT IS UNLIKELY TO RESULT IN ABSORPTION OF HARMFUL AMOUNTS. LD50, RABBIT, 23,000 mg/kg
	ACUTE INHALATION TOXICITY – AT ROOM TEMPERATURES, EXPOSURE TO VAPOR IS MINIMAL DUE TO LOW VOLATILITY. VAPOR FROM HEATED MATERIAL, MIS OR AEROSOLS MAY CAUSE RESPIRATORY IRRITATION. THE LC50 HAS NOT BEEN DETERMINED.
SKIN CORROSION/IRRITATION	PROLONGED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS
	REPEATED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS
SERIOUS EYE DAMAGE/EYE IRRITATION	MAY CAUSE EYE IRRITATION CORNEAL INJURY IS UNLIKELY.
SENSITIZATION	FOR SIMILAR MATERIALS: HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS
	HAS DEMONSTRATED THE POTENTIAL FOR CONTACT ALLERGY IN MICE.
	FOR RESPIRATORY SENSITIZATION – NO RELEVANT DATA FOUND.
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)	EVALUATION OF AVAILABLE DATA SUGGEST THAT THIS MATERIAL IS NOT AN STOT-SE TOXICANT.
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)	EXCEPT FOR SKIN SENSITIZATION, REPEATED EXPOSURE TO LOW MOLECULAR WEIGHT EPOXY RESINS OF THIS TYPE ARE NOT ANTICIPATED TO CAUSE ANY SIGNIFICANT ADVERSE EFFECTS.
CARCINOGENICITY	MANY STUDIES HAV BEEN CONDUCTED TO ASSESS THE POTENTIAL CARCINOGENICITY OF DIGLYCIDYL EITHER OF BISPHENOL A (DGBPA). INDEED THE MOST RECENT REVIEW OF THE AVAILABLE DATA BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT DGBPA IS NOT CLASSIFIED AS A CARCINOGEN. ALTHOUGH SOME WEAK EVIDENCE OF CARCINOGENICITY HAS BEEN REPORTED IN ANIMALS. WHEN ALL OF THE DATA ARE CONSIDERED, THE WEIGHT OF EVIDENCE DOES NOT SHOW THAT DGBPA IS CARCINOGENIC.
TERATOGENICITY	RESIN BASED ON THE DIGLYCIDYL ETHER OR BISPHENOL A (DGBPA) DID NOT CAUSE BIRTH DEFECTS OR OTHER ADVERSE EFFECTS ON THE FETUS WHEN PREGNANT RABBITS WERE EXPOSED BY SKIN CONTACT, THE MOST LIKELY ROUTE OF EXPOSURE OR WHEN PREGNANT RATS OR RABBITS WERE EXPOSED ORALLY.
REPRODUCTIVELY TOXICITY	IN ANIMAL STUDIES, DID NOT INTERFERE WITH REPRODUCTION.

MUTAGENICITY	IN VITRO GENETIC TOXICITY STUDIES WERE NEGATIVE IN SOME CASES AND POSITIVE IN OTHER CASES. ANIMALS GENETIC TOXICITY STUDIES WERE NEGATIVE.
ASPIRATION HAZARD	BASED ON PHYSICAL PROPERTIES, NOT LIKELY TO BE AN ASPIRATION HAZARD.
COMPONENTS INFLUENCING TOXICOLOT	PROPANE, 2,2-BIS [P-(2,3-EPOXYPROPOXY)PHENYL]-, POLYMERS
	ACUTE INHALATION TOXICITY THE LC50 HAS NOT BEE DETERMINED.

SECTION XII ECOLOGICAL INFORMATION

TOXICITY	ACUTE TOXICITY TO FISH MATERIAL IS MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/E50 BETWEEN 1 AN 10 mg/L IN THE MOSTE SENSITIVE SPECIES TESTED).
	LC50, ONCORHYNCHUS MYKISS (RAINBOW TROUT), SEMI-STATIC TEST, 96 HOUR, 2 mg/l
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES EC50, DAPHNAIA MAGNA (WATER FLEA), STATIC TEST, 48 HOUR, 1.8 mg/l
	ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS ErC50, SCENEDESMUS CAPRICORNUTUM (FRESH WATER ALGAE), STATIC TEST, 72 HOUR, GROWTH RATE INHIBITION, 11 mg/l.
	TOXICITY TO BACTERIA IC50, BACTERIA, 18 HOUR, RESPIRATION RATES., >42.6 mg/l
	CHRONIC AQUATIC TOXICITY
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES MATC (MAXIMUM ACCEPTABLE TOXICANT LEVEL), DAPHNIA MAGNA (WATER FLEA), SEMI-STATIC TEST, 21 d, NUMBER OF OFFSPRING, 0.55 mg/l
	PERSISTENCE AND DEGRADABILITY
	BIODEGRADABILITY: BASED ON STRINGENT OECD TEST GUIDELINES, THIS MATERIAL CANNOT BE CONSIDERED AS READILY BIODEGRADABLE: HOWEVER, THESE RESULTS DO NOT NECESSARILY MEAN THAT THE MATERIAL IS NOT BIODEGRADABLE UNDER ENVIRONMENTAL CONDITIONS. 10-DAY WINDOW: NOT APPLICABLE
	BIODEGRADATION: 12%
EXPOSURE TIME 28 DAYS	
METHOD OECD TEST GUIDELINE 302B RO EQUIVALENT.	
	THEORETICAL OXYGEN DEMAND: 2.35 mg/mg ESTIMATED.
	PHOTO DEGRADATION
	TEST TYPE: HALF LIFE (INDIRECT PHOTOLYSIS)
	SENSITIZER: OH RADICALS
	ATMOSPHERIC HALF-LIFE: 1.92 HOUR
	METHOD: ESTIMATED.
BIOACCUMULATIVE POTENTIAL	BIOACCUMULATION: BIOCONCENTRATION POTENTIAL IS MODERATE (BCF BETWEEN 100 AND 3000 OR LOG POW BETWEEN 3 AND 5).
	PARTITION COEFFICIENT: N-OCTANOL/WATER (LOG POW): 3.242 AT 25°C ESTIMATED

CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? **YES**

MOBILITY IN SOIL	POTENTIAL FOR MOBILITY IN SOIL IS LOW (KOC BETWEEN 500 AND 2000). GIVING ITS VERY LOW HENRY'S CONSTANT, VOLATILIZATION FROM NATURAL BODIES OF WATER OR MOIST SOIL IS NOT EXPECTED TO BE AN IMPORTANT FATE PROCESS.
	PARTITION COEFFICIENT (KOC): 1800 – 4400 ESTIMATED.

SECTION XVI OTHER INFORMATION





PREPARED BY	DARRYL MANUEL / PRESIDENT
COMPANY:	VEXCON CHEMICALS, INC.
ADDRESS:	7240 STATE RD., PHILA., PA 19135 USA
THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM SOURCES BELIEVED TO BE RELIABLE. VEXCON PROVIDES NO WARRANTIES, EXPRESSED OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.	

SECTION XIII DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: IF POSSIBLE, PUMP TO CONTROLLED CONTAINMENT AREA. ABSORB ON CLAY OR SAND. DISPOSE OF IN COMPLIANCE WITH EPA, FEDERAL, STATE, AND LOCAL REGULATIONS. TREATMENT, TRANSPORTATION AND DISPOSAL MUST BE IN COMPLIANCE WITH EPA FEDERAL, STATE, AND LOCAL REGULATIONS UNDER THE RESOURCES CONSERVATION AND RECOVERY ACT (RCRA, 40 CFR 261). TYPICALLY CONTROLLED BURNING, INCINERATION OR APPROVED LAND FILL SITES ARE AVAILABLE.
AQUATIC TOXICITY (E.G. 96HR.TLM): DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATERS OR WATERWAYS UNLESS AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA)

HMIS HAZARD RATINGS: THIS INFORMATION IS FOR PEOPLE TRAINED IN: NATIONAL PAINT AND COATINGS ASSOCIATIONS (NPCA) HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704) IDENTIFICATION OF FIRE HAZARDS OF MATERIALS			KEY 4 -- SEVERE
PROCOAT HBE SYSTEM PART B CLEAR	NPCA-HMIS	NFPA 704	3 -- SERIOUS
HEALTH	1	1	2 -- MODERATE
FLAMMABILITY	1	1	1 -- SLIGHT
REACTIVITY	0	0	0 -- MINIMAL

SECTION XIV TRANSPORTATION INFORMATION

Governin g Body	Mode	UN Number	Proper Shipping Name	Hazard Class	Packin g Group
DOT	GROUND (NON-BULK)	NON-REGULATED	NON-REGULATED	NON-REGULATED	NA
DOT	GROUND (BULK)	3082	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (EPOXY RESIN)		III
IATA	AIR	3082	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (EPOXY RESIN)		III
IMDG	OCEAN	3082	ENVIRONMENTAL LY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (EPOXY RESIN)		III
MARINE POLLUTANT:		THIS PRODUCT CONTAINS A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B) EPOXY RESIN			

SECTION XV REGULATORY INFORMATION

CERCLA: IF THE REPORTABLE QUANTITY OF THIS PRODUCT IS ACCIDENTALLY SPILLED, THE INCIDENT IS SUBJECT TO THE PROVISIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) AND MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER BY CALLING 1-800-424-8802 or 202-426-2675. NO REPORTABLE SPILL QUANTITY (RQ) HAS BEEN ESTABLISHED FOR THIS PRODUCT
SARA TITLE III: UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND RE-AUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES: ACUTE HEALTH HAZARD
ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)
FEDERAL / FDA / USDA:
MARINE POLLUTANTS: YES, THIS PRODUCT DOES CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B). EPOXY RESIN
CALIFORNIA PROP 65: WARNING: This product DOES NOT contain chemicals known to the state of California to cause cancer or birth defects or other reproductive harm. (Epichlorohydrin, Ethylbenzene, Crystalline Silica particles of respirable size)
CERCLA / RQ: THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A):
TSCA: IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING

