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

HEALTH	3
FLAMMABILITY	2
REACTIVITY	0

SAFETY DATA SHEET
VEXCON NO. CP103-AIM

POWERCOAT EPOXY HD AIM CLEAR PART A

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION: POWERCOAT EPOXY HD AIM CLEAR PART A	
VOC CONTENT:	AS APPLIED:<300 GRAMS/LITER OR <2.50 #/GAL PART A ONLY: 380 g/L (37%) PART B ONLY: 220 g/L (63%)
CATEGORY:	INDUSTRIAL MAINTENANCE COATING
COMMON NAME:	EPOXY COATING FOR CONCRETE
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:	MAY 1996
UPDATED:	DECEMBER 2013
PREPARED BY:	DARRY F. MANUEL , PRESIDENT

SECTION II – HAZARD IDENTIFICATION

DOT SHIPPING NAME:
UN ID NUMBER / SHIPPING NAME / HAZARD CLASS / PKG GROUP
IN CONTAINERS LESS THAN 119 GALS:
UN 1866, RESIN SOLUTION(TERTIARY BUTYL ACETATE) , FLAMMABLE, 3, PGII,

IN CONTAINERS GREATER THAN 119 GALS:
UN 1866, RESIN SOLUTION (TERTIARY BUTYL ACETATE) , FLAMMABLE, 3, II,

FOR LIMITED QUANTITY AIR & OCEAN SHIPMENT:
UN 1866, RESIN SOLUTION (TERTIARY BUTYL ACETATE), FLAMMABLE, 3, II, LIMITED QUANTITY

LTD QTY Limits:
Passenger Air Limit 60L (15.8gal);
Cargo Air Limit 220L (58.1gal)

ORM-D: MAX. 30 Kg gross wt

HEALTH AND SAFETY: FLAMMABLE OR COMBUSTIBLE LIQUID: 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 III HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
STYRENE ACRYLATE POLYMER	25036-16-2	40-50%	ND	NONE
TERTIARY BUTYL ACETATE	540-88-5	10-20%	OSHA HAZARD: FLAMMABLE LIQUID OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	1123
SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC (AROMATIC 100)	64742-95-6	10-20%	TLV 50ppm OSHA HAZARD: COMBUSTIBLE LIQUID EXXON/MOBIL RCP 19ppm (TWA)	1268
ETHYLENE GLYCOL MONOPROPYL ETHER	2807-30-9	5-15%	OSHA HAZARD: COMBUSTIBLE LIQUID Dow IHG 20 ppm TWA ILO 20 ppm, 86 mg/m3	1993
MODIFIED ALIPHATIC AMINE	6861056	5-10%	CORROSIVE SKIN/ORAL	

(AR100) THE AROMATIC SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:

COMPONENT	CAS NO.	MAX %	HAZARD DATA	UN#
1,2,4-TRIMETHYL BENZENE (PSEUDOCUMENE)	95-63-6	2.5%	OSHA PEL: NE ACGIH TLV: 25ppm (TWA)	1993
XYLENES	1330-20-7	<2.2%	OSHA Z1 100ppm (TWA) ACGIH TLV 100ppm (TWA) NIOSH REL 100 ppm (TWA)	1307
CUMENE	98-82-8	<1.1%	OSHA Z1 50ppm (TWA) ACGIH TLV 50ppm (TWA)	1918

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. VAPOR INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA OR HEADACHE. Tertiary Butyl Acetate and AR100 Components
SKIN CONTACT:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components
SKIN ABSORPTION:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components

EYE CONTACT:	THIS PRODUCT MAY BE AN EYE IRRITANT. Tertiary Butyl Acetate and AR100 Components
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:	**TLV 50 ppm AR-100** 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. NOTE: THIS MATERIAL RELEASES ETHYL ALCOHOL UPON HYDROLYSIS. ETHYL ALCOHOL CAUSES OPTIC NEUROPATHY, METABOLIC ACIDOSIS AND RESPIRATORY DEPRESSION. SIGNS AND SYMPTOMS OF OVEREXPOSURE INCLUDE HEADACHE, BLURRED VISION, CONSTRICTED VISUAL FIELDS, SHORTNESS OF BREATH, DIZZINESS AND VERTIGO.
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.
GENERAL HAZARD:	**FLAMMABLE** - CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASH POINT. **STATIC DISCHARGE** - MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE. **"EMPTY" CONTAINERS** RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.
ELECTRO-STATIC ACCUMULATION HAZARD:	USE PROPER GROUNDING
UNUSUAL FIRE AND EXPLOSION HAZARD:	IF STORAGE CONTAINERS ARE EXPOSED TO EXCESSIVE HEAT, **OVER PRESSURIZATION** OF THE CONTAINERS CAN RESULT. **VAPOR IS HEAVIER THAN AIR** AND MAY TRAVEL ALONG THE GROUND OR THROUGH VENTILATION SYSTEM CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. KEEP WORK AREAS **FREE OF HOT METAL** SURFACES AND OTHER SOURCES OF IGNITION.
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

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.

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) **98°C / 208°F (TBAc)**	**MELTING/FREEZING POINT:** −62˚C / 79˚F (TBAc)
VAPOR PRESSURE: 41.5 mmHg@68°F/25°C (TBAc)	**VAPOR DENSITY (AIR=1):** 4.0 (TBAc)
SOLUBILITY IN H20 % BY WT: INSOLUBLE	**% VOLATILES BY VOL:** 45-55%
EVAPORATION RATE (BuAc=1): 2.8 MEDIUM (TBAc)	**REALITIVE DENSITY (H2O=1)** 0.94
pH (AS IS): N/A	**pH (1% SOLN):** N/A
APPEARANCE AND ODOR:	CLEAR LIQUID WITH SLIGHTLY SWEET SOLVENT ODOR
FLASH POINT: (TEST METHOD)	**4°C / 39°F (TCC) (TBAc)**
AUTOIGNITION TEMP:	517°C / 964°F (TBAc)
FLAMMABLE LIMITS IN AIR, % BY VOL:	LOWER: 1.2% UPPER: 6.9% (TBAc)

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	LC50 (VAPOR)	RAT	4211 ppm	6 HOURS
	LD50 (ORAL)	RAT	4500 MG/KG BWT	
	LD50	RABBIT	>2000 ,G/KG BWT	
ACUTE EFFECTS	INHALATION		VAPORS OR AEROSOL MAY CAUSE IRRITATIONOF THE EYES, NOSE AND THROAT AS WELL AS CNS DEPRESSION (FATIGUE, DIZZINES, LOSS OF CONCENTRATION, WITH COLLAPSE, COMA AND DEATH POSSIBLE IN CASES OF SEVERE OVER EXPOSURE), INHALATION OF AIRBORNE DROPLETS MAY CAUSE IRRITATIONS OF THE RESPIRATORY TRACT.	
	INGESTION		MAY CAUSE CNS DEPRSSION, GASTRIC DSCOMFORT, AND VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARD.	
	SKIN CONTACT		NO SYSTEMIC TOXICITY IS EXPECTED FROM ACUTE DERMAL EXPOSURE	
IRRITATION	SKIN		NOT A SKIN IRRITANT	
	EYES		NO EYE IRRITATION	
SENSITIZATION	DOES NOT INDUCE SKIN SENSITIZATION.			
REPEATED DOES TOXICITY	INHALATION REPEATED EXPOSURE STUDIES DEMONSTRATED TARGET ORGAN EFFECTS IN MALE RATS (KINDEY) BY MECHANISM OF ACTION THAT IS NOT RELEVANT TO HUMAS NAD IN MICE (NERVOUS SYTEM) TRANSIENT BEHAVIOR CHANGES THAT WERE OBSERVED IMMEDIATELY AFTER EXPOSURE.			
REPRODUCTIVE EFFEXTE	THIS SUBSTANCE IS NOT TOXIT TO REPRODUCTION. THE REPRODUCTIVE TOXICITY OF T-BUTYL ACETATE HAS BEEN INVESTAGATED IN RATS VIA A INHALATION ROUTE. THERE WERE NO ADVERSE EFFECTS ON REPRODUCTIVE PERFORMANCE OR SPERM NUMVER OR UALITY AT 1600 ppm, THE HIGHEST EXPOSURE LEVEL TESTED. IN ADDITION, NO GROSS OR HISTOPATHOLOGIC EFFECTS WERE OBSERVED IN THE REPRODUCTIVE ORGANS OF MALE AND FEMALE RATS OR MICE EXPOSED AT 1600 ppm FOR 90 DAYS IN A REPEATED EXPOSURE TOXICITY STUDY CONDUCTED VIA INHALATION AND THERE WAS NO ADVERSE EFFECTS ON ESTROUS CYCLE LENGTH IN MICE.			
DEVELOPMENTAL TOXICITY	THIS SUBSTANCE IS NOT A DEVELOPMENTAL TOXICANT. IT DID NOT CAUSE MATERNAL TOXICITY AND NO EMBRO/FETAL TOXICITY OR DEVELOPMENTA ABNORMALITIES WERE OBSERVED IN THE OFF SPRINF OF ANIMALS FOLLOWING INHALATION EXPOSURES OF 1600 ppm.			
GENETIS TOXICITY	NEGATICE FOR GENOTOXICITY USING BOTH IN VITRO AND IN VIVO TEST.			
GARCINOGENICITY	SPECIFIC DATA NOT AVAILABLE. T-BUTANOL, THE PRIMARY METABOLITE OF T-BUTYL ACETATE IS AN ANAMAL CARCINOGEN. IN DRINKING WATER STUDY, T-BUTANOL INDUCED BEGIGN KIDNEY TUMORS IN MALE RATS VIA AN *a*-2u-GLOBULIN MODE OF ACTION, A TUMOR MECHANISM NOT RELEVANT TO HUMANS. IN FEMAL MICE, THERE WAS AN INCREASE INCIDENCE OF BEGIGN THYROID TUMORS, A TUMOR MECHANISM THAT MOST LIKELY IS NOT RELEVANT TO HUMAND. THIS SUBSTANCE IS NOT CLASSIIFIED FOR CARCINOGENICITY BY IARC, OSHA, NTP OR THE EPA.			

SECTION XII ECOLOGICAL INFORMATION

ECOTOXICITY	**ACUTE FISH TOXICITY**	LC50/96 HOURS	ONCORHYNCHUS MYKISS 240 mg/l	ACUTE TOSICITY TO FISH IS LOW
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES	EC50/48 HOURS	DAPHNIA MAGNE 350 mg/l	LOW ACUTE TOXICITY TO AQUATIC INVERTEBRATES.
	TOXICITY TO AQUATIC PLANTS	EC/5096 HOURS	PSEUDOKIRCHNERIELLA SUBCAPITATA 60 mg/l	LOW TOXICITY TO ALGAE
	TOXICITY TO MICROORGANISMS	EC3/16 HOURS	PSEUDOMONAS PUTIDA 78 mg/l	LOW TOXICITY TO BACTERIA
		EC3/72 HOURS	ENTOSPIHON SULCATUM 970 mg/l	
	CHRONIC TOXICITY TO FISH	NO DATA AVAILABLE		
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES	NON DATA AVAILABLE		
	OTHER ADVRSE EFFECTS	EXPECTED TO SHOW LOW TOXICITY TO HIGHER PLANTS		
ENVIRONMENTAL FATE AND PATHWAYS	EXPECTED TO BE EMMITTED AND PARTITION PREDOMINANTLY TO THE ATMOSPHERE. ACCIDENTIAL RELEASES TO WATER OR SOIL ARE EXPECTED TO EVAPORATED AND UNDERGO ATMOSPHERIC DECOMPOSITION PROCESSES.			
	MOBILITY	BEHAVIOR IN ENVIRONMENTAL COMPARTMENTS; RELEASED MATERIAL WOULD BE EXPECTED TO SHOW HIGH SOIL MOBILITY AND TO VOLATILIZE READILY FORM SOIL NAD SURFACE WATERS, FORMING ATMOSPHERIC VAPOR.		

	PERSISTENCE AND DEGRADABILITY	BIODEGRADATION: EXPECTED TO HYDROLYZE SLOWLY IN WATER (HALF-LIFE CA 0.5 YEARS OR LONGER). ATMOSPHERIC VAPORS EXPECTED TO BE PHOTOCHEMICALLY DEGRADED BY REACTION WITH HYDROXYL RADICALS (HALS LIKE 19.7 DAYS). INHERENTLY BIODEGRADABLE.
		BIOACCUMULATION: BIOCONCENTRATION FACTOR (BCF) 5.61 ((QSAR CALCULATED VALUE)) THIS MATERIAL IS NOT EXPECTED TO BIOACCUMULATE.
	OTHE ADVERSE EFFECTS	THIS MATERIAL IS NOT CONSIDERED PERSISTENT BY EPA, AND IS NOT EXPECED TO CONTRIBUTE TO THE GREENHOUSE GAS EFFECT, STRATOSPHERIC OZONE DEPLETION. TROPOSPHERIC OZONE FORMATION, OR PARTICULATE MATTER FORMATION.

SECTION XIII DISPOSAL CONSIDERATIONS

AQUATIC TOXICITY (E,G, 96H. TLM) : DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATER OR WATERWA UNLES AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTIONS AGENCY (EPS).

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.

SECTION XIV TRANSPORTATION INFORMATION

Governing Body	Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group
DOT	GROUND	1866	RESIN SOLUTION (TERTIARY BUTYL ACETATE)	3, FLAMMABLE	II
IATA	AIR	1866	RESIN SOLUTION (TERTIARY BUTYL ACETATE)	3, FLAMMABLE	II
IMDG	OCEAN	1866	RESIN SOLUTION (TERTIARY BUTYL ACETATE)	3, FLAMMABLE	II
MARINE POLLUTANT:	THIS PRODUCT DOES NOT CONTAIN A MATERIAL. ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B)				

SECTION XV REGULATORY INFORMATION

TSCA: THE SOLVENT PORTION OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AS A UVCB (UNKNOWN, VARIABLE COMPOSITION OR BIOLOGICAL) CHEMICAL AT CAS REGISTRY NUMBER 64742-95-6 (aromatic 100) AND 540-88-5 (tertiary butyl acetate).

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.
THE REPORTABLE SPILL QUANTITY (RQ) OF THIS PRODUCT IS 5,000 POUNDS (BUTYL ACETATE).

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: DELAYED HEALTH, FIRE

ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)

FEDERAL / FDA / USDA:

MARINE POLLUTANTS: NO. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B).

CALIFORNIA PROP 65: WARNING: This product contains 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: **5000 POUNDS (BUTYL ACETATE,** THIS PRODUCT CONTAINS A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A): BUTYL ACETATE, , XYLENES, MIXED

TSCA: IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? **YES**

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.

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
3 -- SERIOUS
2 -- MODERATE
1 -- SLIGHT
0 -- MINIMAL

POWERCOAT EPOXY HD AIM CLEAR PART A	NPCA-HMIS	NFPA 704
HEALTH	3	3
FLAMMABILITY	2	2
REACTIVITY	0	0

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

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

SAFETY DATA SHEET
VEXCON NO. CP103-AIM

POWERCOAT EPOXY HD AIM CLEAR PART B

SECTION I - GENERAL INFORMATION

PRODUCT IDENTIFICATION: **POWERCOAT EPOXY HD AIM CLEAR PART B**	
VOC CONTENT:	AS APPLIED: 300 GRMAS/LITER OR <2.50 #/GAL PART A ONLY: 380 g/L (37%) PART B ONLY: 220 g/L (63%)
CATEGORY:	INDUSTRIAL MAINTENANCE COATING
COMMON NAME:	EXPOXY COATING FOR CONCRETE
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:	MAY 1996
UPDATED:	DECEMBER 2013
PREPARED BY:	DARRY F. MANUEL , PRESIDENT

SECTION II – HAZARD IDENTIFICATION

DOT SHIPPING NAME:
UN ID NUMBER / SHIPPING NAME / HAZARD CLASS / PKG GROUP
IN CONTAINERS LESS THAN 119 GALS:
UN 1866, RESIN SOLUTION(TERTIARY BUTYL ACETATE) , FLAMMABLE, 3, PGII,

IN CONTAINERS GREATER THAN 119 GALS:
UN 1866, RESIN SOLUTION (TERTIARY BUTYL ACETATE) , FLAMMABLE, 3, II,

FOR LIMITED QUANTITY AIR & OCEAN SHIPMENT:
UN 1866, RESIN SOLUTION (TERTIARY BUTYL ACETATE), FLAMMABLE, 3, II, LIMITED QUANTITY

LTD QTY Limits:
Passenger Air Limit 60L (15.8gal);
Cargo Air Limit 220L (58.1gal)

ORM-D: MAX. 30 Kg gross wt

HEALTH AND SAFETY: FLAMMABLE OR COMBUSTIBLE LIQUID: 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 III HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENTS	CAS NO.	%	HAZARD DATA	UN#
BISPHENOL A / EPICHLOROHYDRIN EPOXY RESIN	25068-38-6	65-75%	NOT ESTABLISHED	N/A
TERTIARY BUTYL ACETATE	540-88-5	10-15%	OSHA HAZARD: FLAMMABLE LIQUID OSHA PEL: 200 ppm ACGIH TLV: 200 ppm	1123
ETHYLENE GLYCOL MONOPROPYL ETHER	002807-30-9	1-5%%	OSHA HAZARD: COMBUSTIBLE TLV 100 ppm	1993
CYCLOHEXANONE	108-94-1	1-5%%	OSHA PEL 50 ppm, 200 mg/m3 TWA ACGIH TLV 20 ppm, 80 mg/m3 TWA NIOSH REL 25 ppm, 100 mg/m3 TWA	1915
SOLVENT NAPHTHA (Petroleum), LIGHT AROMATIC	64742-95-6	10-15%	TLV 50 PPM OSHA HAZARD: COMBUSTIBLE	1268
THE SOLVENT PORTION CONTAINS THE FOLLOWING SECTION 313 REPORTABLE INGREDIENTS:				
COMPONENT	**CAS NO.**	**MAX %**	**HAZARD DATA**	**UN#**
1,2,4 TRIMETHYL BENZENE (PSEUDOCUMENE)	95-63-6	1.5% MAX	DOT LABEL: FLAMMABLE LIQUID OSHA PEL not regulated ACGIH TLV 25 ppm (TWA) NIOSH REL: 25 ppm (TWA)	1993
XYLENES	1330-20-7	2.2% MAX	DOT LABEL: FLAMMABLE LIQUID OSHA PEL: 100 ppm (TWA) ACGIH TLV 100 ppm (TWA)	1307
CUMENE	98-82-8	<1.1 % MAX	OSHA PEL: 50 ppm (TWA) ACGIH TLV 50 ppm (TWA)	1918

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. VAPOR INHALATION CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA OR HEADACHE. Tertiary Butyl Acetate and AR100 Components
SKIN CONTACT:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components

SKIN ABSORPTION:	THIS PRODUCT MAY CAUSE SKIN IRRITATION UPON PROLONGED OR REPEATED CONTACT. Tertiary Butyl Acetate and AR100 Components
EYE CONTACT:	THIS PRODUCT MAY BE AN EYE IRRITANT. Tertiary Butyl Acetate and AR100 Components
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:	**TLV 50 ppm AR-100** 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. NOTE: THIS MATERIAL RELEASES ETHYL ALCOHOL UPON HYDROLYSIS. ETHYL ALCOHOL CAUSES OPTIC NEUROPATHY, METABOLIC ACIDOSIS AND RESPIRATORY DEPRESSION. SIGNS AND SYMPTOMS OF OVEREXPOSURE INCLUDE HEADACHE, BLURRED VISION, CONSTRICTED VISUAL FIELDS, SHORTNESS OF BREATH, DIZZINESS AND VERTIGO.
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.
GENERAL HAZARD:	**FLAMMABLE** - CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASH POINT. **STATIC DISCHARGE** - MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE. **"EMPTY" CONTAINERS** RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION: THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.
ELECTRO-STATIC ACCUMULATION HAZARD:	USE PROPER GROUNDING
UNUSUAL FIRE AND EXPLOSION HAZARD:	IF STORAGE CONTAINERS ARE EXPOSED TO EXCESSIVE HEAT, **OVER PRESSURIZATION** OF THE CONTAINERS CAN RESULT. **VAPOR IS HEAVIER THAN AIR** AND MAY TRAVEL ALONG THE GROUND OR THROUGH VENTILATION SYSTEM CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. KEEP WORK AREAS **FREE OF HOT METAL** SURFACES AND OTHER SOURCES OF IGNITION.
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

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.

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) 98°C / 208°F (TBAc)	**MELTING/FREEZING POINT:** −62˚C / 79˚F (TBAc)
VAPOR PRESSURE: 41.5 mmHg@68°F/25°C (TBAc)	**VAPOR DENSITY (AIR=1):** 4.0 (TBAc)
SOLUBILITY IN H20 % BY WT: INSOLUBLE	**% VOLATILES BY VOL:** 45-55%
EVAPORATION RATE (BuAc=1): 2.8 MEDIUM (TBAc)	**REALITIVE DENSITY (H2O=1)** 0.94
pH (AS IS): N/A	**pH (1% SOLN):** N/A
APPEARANCE AND ODOR:	CLEAR LIQUID WITH SLIGHTLY SWEET SOLVENT ODOR
FLASH POINT: (TEST METHOD)	**4°C / 39°F (TCC) (TBAc)**
AUTOIGNITION TEMP:	517°C / 964°F (TBAc)
FLAMMABLE LIMITS IN AIR, % BY VOL:	LOWER: 1.2% UPPER: 6.9% (TBAc)

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	LC50 (VAPOR)	RAT	4211 ppm	6 HOURS
	LD50 (ORAL)	RAT	4500 MG/KG BWT	
	LD50	RABBIT	>2000 ,G/KG BWT	
ACUTE EFFECTS	INHALATION		VAPORS OR AEROSOL MAY CAUSE IRRITATIONOF THE EYES, NOSE AND THROAT AS WELL AS CNS DEPRESSION (FATIGUE, DIZZINES, LOSS OF CONCENTRATION, WITH COLLAPSE, COMA AND DEATH POSSIBLE IN CASES OF SEVERE OVER EXPOSURE), INHALATION OF AIRBORNE DROPLETS MAY CAUSE IRRITATIONS OF THE RESPIRATORY TRACT.	
	INGESTION		MAY CAUSE CNS DEPRSSION, GASTRIC DSCOMFORT, AND VOMITING. THIS MATERIAL IS AN ASPIRATION HAZARD.	
	SKIN CONTACT		NO SYSTEMIC TOXICITY IS EXPECTED FROM ACUTE DERMAL EXPOSURE	
IRRITATION	SKIN		NOT A SKIN IRRITANT	
	EYES		NO EYE IRRITATION	
SENSITIZATION	DOES NOT INDUCE SKIN SENSITIZATION.			
REPEATED DOES TOXICITY	INHALATION REPEATED EXPOSURE STUDIES DEMONSTRATED TARGET ORGAN EFFECTS IN MALE RATS (KINDEY) BY MECHANISM OF ACTION THAT IS NOT RELEVANT TO HUMAS NAD IN MICE (NERVOUS SYTEM) TRANSIENT BEHAVIOR CHANGES THAT WERE OBSERVED IMMEDIATELY AFTER EXPOSURE.			
REPRODUCTIVE EFFEXTE	THIS SUBSTANCE IS NOT TOXIT TO REPRODUCTION. THE REPRODUCTIVE TOXICITY OF T-BUTYL ACETATE HAS BEEN INVESTAGATED IN RATS VIA A INHALATION ROUTE. THERE WERE NO ADVERSE EFFECTS ON REPRODUCTIVE PERFORMANCE OR SPERM NUMVER OR UALITY AT 1600 ppm, THE HIGHEST EXPOSURE LEVEL TESTED. IN ADDITION, NO GROSS OR HISTOPATHOLOGIC EFFECTS WERE OBSERVED IN THE REPRODUCTIVE ORGANS OF MALE AND FEMALE RATS OR MICE EXPOSED AT 1600 ppm FOR 90 DAYS IN A REPEATED EXPOSURE TOXICITY STUDY CONDUCTED VIA INHALATION AND THERE WAS NO ADVERSE EFFECTS ON ESTROUS CYCLE LENGTH IN MICE.			
DEVELOPMENTAL TOXICITY	THIS SUBSTANCE IS NOT A DEVELOPMENTAL TOXICANT. IT DID NOT CAUSE MATERNAL TOXICITY AND NO EMBRO/FETAL TOXICITY OR DEVELOPMENTA ABNORMALITIES WERE OBSERVED IN THE OFF SPRINF OF ANIMALS FOLLOWING INHALATION EXPOSURES OF 1600 ppm.			
GENETIS TOXICITY	NEGATICE FOR GENOTOXICITY USING BOTH IN VITRO AND IN VIVO TEST.			
GARCINOGENICITY	SPECIFIC DATA NOT AVAILABLE. T-BUTANOL, THE PRIMARY METABOLITE OF T-BUTYL ACETATE IS AN ANAMAL CARCINOGEN. IN DRINKING WATER STUDY, T-BUTANOL INDUCED BEGIGN KIDNEY TUMORS IN MALE RATS VIA AN *a*-2u-GLOBULIN MODE OF ACTION, A TUMOR MECHANISM NOT RELEVANT TO HUMANS. IN FEMAL MICE, THERE WAS AN INCREASE INCIDENCE OF BEGIGN THYROID TUMORS, A TUMOR MECHANISM THAT MOST LIKELY IS NOT RELEVANT TO HUMAND. THIS SUBSTANCE IS NOT CLASSIIFIED FOR CARCINOGENICITY BY IARC, OSHA, NTP OR THE EPA.			

SECTION XII ECOLOGICAL INFORMATION

ECOTOXICITY	**ACUTE FISH TOXICITY**	LC50/96 HOURS	ONCORHYNCHUS MYKISS 240 mg/l	ACUTE TOSICITY TO FISH IS LOW
	ACUTE TOXICITY TO AQUATIC INVERTEBRATES	EC50/48 HOURS	DAPHNIA MAGNE 350 mg/l	LOW ACUTE TOXICITY TO AQUATIC INVERTEBRATES.
	TOXICITY TO AQUATIC PLANTS	EC/5096 HOURS	PSEUDO KIRCHNERIELLA SUBCAPITATA 60 mg/l	LOW TOXICITY TO ALGAE
	TOXICITY TO MICROORGANISMS	EC3/16 HOURS	PSEUDO MONAS PUTIDA 78 mg/l	LOW TOXICITY TO BACTERIA
		EC3/72 HOURS	ENTOSPIHON SULCATUM 970 mg/l	
	CHRONIC TOXICITY TO FISH	NO DATA AVAILABLE		
	CHRONIC TOXICITY TO AQUATIC INVERTEBRATES	NON DATA AVAILABLE		
	OTHER ADVRSE EFFECTS	EXPECTED TO SHOW LOW TOXICITY TO HIGHER PLANTS		
ENVIRONMENTAL FATE AND PATHWAYS	EXPECTED TO BE EMMITTED AND PARTITION PREDOMINANTLY TO THE ATMOSPHERE. ACCIDENTIAL RELEASES TO WATER OR SOIL ARE EXPECTED TO EVAPORATED AND UNDERGO ATMOSPHERIC DECOMPOSITION PROCESSES.			
	MOBILITY	BEHAVIOR IN ENVIRONMENTAL COMPARTMENTS; RELEASED MATERIAL WOULD BE EXPECTED TO SHOW HIGH SOIL MOBILITY AND TO VOLATILIZE READILY FORM SOIL NAD SURFACE WATERS, FORMING		

		ATMOSPHERIC VAPOR.
	PERSISTENCE AND DEGRADABILITY	BIODEGRADATION: EXPECTED TO HYDROLYZE SLOWLY IN WATER (HALF-LIFE CA 0.5 YEARS OR LONGER). ATMOSPHERIC VAPORS EXPECTED TO BE PHOTOCHEMICALLY DEGRADED BY REACTION WITH HYDROXYL RADICALS (HALS LIKE 19.7 DAYS). INHERENTLY BIODEGRADABLE.
		BIOACCUMULATION: BIOCONCENTRATION FACTOR (BCF) 5.61 ((QSAR CALCULATED VALUE)) THIS MATERIAL IS NOT EXPECTED TO BIOACCUMULATE.
	OTHE ADVERSE EFFECTS	THIS MATERIAL IS NOT CONSIDERED PERSISTENT BY EPA, AND IS NOT EXPECED TO CONTRIBUTE TO THE GREENHOUSE GAS EFFECT, STRATOSPHERIC OZONE DEPLETION. TROPOSPHERIC OZONE FORMATION, OR PARTICULATE MATTER FORMATION.

SECTION XIII DISPOSAL CONSIDERATIONS

AQUATIC TOXICITY (E,G, 96H. TLM) : DO NOT DISCHARGE THIS PRODUCT INTO PUBLIC WATER OR WATERWA UNLES AUTHORIZED BY A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ISSUED BY THE ENVIRONMENTAL PROTECTIONS AGENCY (EPS).
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.

SECTION XIV TRANSPORTATION INFORMATION

Governing Body	Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group
DOT	GROUND	1866	RESIN SOLUTION (TERTIARY BUTYL ACETATE)	3, FLAMMABLE	II
IATA	AIR	1866	RESIN SOLUTION (TERTIARY BUTYL ACETATE)	3, FLAMMABLE	II
IMDG	OCEAN	1866	RESIN SOLUTION (TERTIARY BUTYL ACETATE)	3, FLAMMABLE	II
MARINE POLLUTANT:		THIS PRODUCT DOES NOT CONTAIN A MATERIAL. ON THE MARINE POLLUTANTS TABLE (HMT 172.101 APPENDIX B)			

SECTION XV REGULATORY INFORMATION

TSCA: THE SOLVENT PORTION OF THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AS A UVCB (UNKNOWN, VARIABLE COMPOSITION OR BIOLOGICAL) CHEMICAL AT CAS REGISTRY NUMBER 64742-95-6 (aromatic 100) AND 540-88-5 (tertiary butyl acetate).
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. **THE REPORTABLE SPILL QUANTITY (RQ) OF THIS PRODUCT IS 5,000 POUNDS (BUTYL ACETATE).**
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: DELAYED HEALTH, FIRE
ADDITIONAL REGULATORY CONCERNS: (FEDERAL, FDA, USDA, CPSC, STATE, OTHER)
FEDERAL / FDA / USDA:
MARINE POLLUTANTS: NO. THIS PRODUCT DOES NOT CONTAIN A MATERIAL ON THE MARINE POLLUTANTS TABLE (HMT 172.101 Appendix B).
CALIFORNIA PROP 65: WARNING: This product contains 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: **5000 POUNDS (BUTYL ACETATE,** THIS PRODUCT CONTAINS A MATERIAL ON THE RQ TABLE (HMT 172.101 Appendix A): BUTYL ACETATE, , XYLENES, MIXED
TSCA: IS THIS PRODUCT, OR ALL ITS INGREDIENTS, BEING CERTIFIED FOR INCLUSION ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY OF CHEMICAL SUBSTANCES? **YES**

SECTION XVI OTHER INFORMATION

PREPARED BY	DARRYL MANUEL / PRESIDENT
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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
POWERCOAT EPOXY HD AIM CLEAR PART B	**NPCA-HMIS**	**NFPA 704**	3 -- SERIOUS
HEALTH	**2**	**2**	2 -- MODERATE
FLAMMABILITY	**3**	**3**	1 -- SLIGHT
REACTIVITY	**0**	**0**	0 -- MINIMAL