



UGloss-AF[®] HIGH-GLOSS, SOLVENT-BASED POLYURETHANE TOP COAT

Product Description

UGloss-AF as an extremely chemical resistant high gloss urethane top coat specially formulated for use on floors where vehicles, equipment, and frequent oil and chemical exposure are present. This product is a self-leveling top coat that exhibits superior durability and resilience characteristics.

Physical Properties

Abrasion Resistance: Using a Tabor Abrasor with a CS17

calibrase wheel, the mg loss = 20 for 500 cycles.

Flexibility: No cracks on a 1/8" mandrel.

Adhesion: 360 p.s.i. using an alcometer - no delamination (concrete failure)

Impact Resistance: Gardner impact = 160 in. lb. (passed, direct and reverse)

Hardness: ShoreD=72

Viscosity: Mixed=200-400 cps

Cure Schedule (at 70°F):

- Pot life..... 1½ hours
- Tack free..... 2-4 hours
- Recoat or top coat..... 4-6 hours
- Light foot traffic..... 14-24 hours
- Full cure 5 days

Chemical Resistance:

Reagent.....	Rating
acetic acid 5%	C
xylene.....	E
mek	B
methyl alcohol.....	B
gasoline.....	D
10% sodium hydroxide.....	E
50% sodium hydroxide.....	D
10% sulfuric acid.....	D
10% hydrochloric acid.....	D
20% nitric acid.....	C
ethylene glycol.....	D

Rating key:

A – not recommended, B – 2hr term splash spill, C – 8 hr term splash spill, D – 72 hr immersion, E – long term immersion. NOTE – extensive chemical information is available through your sales representative.

DOT Classification:

- Part 1 "Flammable Liquid N.O.S., 3, UN1993, PGIII"
- Part 2 "Flammable Liquid N.O.S., 3, UN1993, PGIII"

Specifying Information

Volatile Organic Content (VOC): Less than 3.8 pounds per gallon

Solids by Volume: 53% (±2%) mixed

Solids by Weight: 56% (±2%) mixed

Volatile Organic Content: Less than 3.8 pounds per gallon

Finish: High gloss (80-100 at 60°@Erichsen glossmeter)

Mix Ratio: 2 parts Part 2 to 1 part Part 1 by volume

Primer: Non required. Any suitable UCoat Standard finish can be coated.

Packaging Information: This product is available in 1.5 gallon kits, as well as 1.5 and 0.75 gallon material only packs

Theoretical Coverage: 385 square feet at 3-5 mils wet

Application Temperature: 50-90° F

Shelf Life: 1 year

Recommended Film Thickness: 3-5 mils per coat wet thickness

Disclaimer: The information contained herein relates only to the specific material identified. UCoat It America, LLC ("UCoat It") believes that such information is accurate and reliable as of the date of this MSDS sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. UCoat It urges persons receiving this information to make their own determination as to the information's suitability and completeness to their particular application. UCoat It assumes no responsibilities for injury from the use of this product. It is the buyer's / users responsibility to ensure that all activities comply with the appropriate federal, state, and local laws.



UGloss-AF® Part 1

SECTION 1 - PRODUCT AND MANUFACTURER IDENTIFICATION

Manufacturer's Name: UCoat It America, LLC.
Address: 1797 Atlantic Blvd., Auburn Hills, MI 48326
Date Revised: 05-15-15

Emergency Phone: Chemtrec - 1(800) 424-9300
Information Phone: 248-545-4055
Fax: 248-393-4300

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
Polyester polyol	NJTSRNS0001C	NONE	NONE	NONE	40-70
Siloxanes and silicones, di-me reactions products with silica (non-hazardous)	67762-90-7	NONE	NONE	NONE	0.1-1
siloxanes and silicones, di-methyl (non-hazardous)	63148-62-9	NONE	NONE	NONE	0.1-1
*XYLENE	1330-20-7	100PPM	100PM	150PPM	14
*ethyl benzene (as a component of xylene)	100-41-4	100ppm	100ppm	125ppm	<2.0
2,6-Dimethyl-4-HeptaNONE	108-83-8	25 ppm	25 ppm	NONE	0.1-1
polyalkylene glycol	9038-95-3	NONE	NONE	NONE	0.1-1
4,6-dimethyl-2-heptaNONE	19549-80-5	NONE	NONE	NONE	0.1-1
Dibutyltin Dilurate	77-58-7	0.1mg / m3	0.1mg / m3	0.1mg / m3	0.1-1
Cellulose Acetate Butyrate	9004-36-8	NONE	NONE	NONE	0.1-1
Methyl N-Amyl Ketone	110-43-0	100 ppm	50 ppm	NONE	10-30
4-chlorobenzotrifluoride	98-56-6	NONE	NONE	NONE	3-7
Additive	NJTSRN800963-5023	NONE	NONE	NONE	0.1-1
Light stabilizer	Trade Secret	NONE	NONE	NONE	0.1-1
Benzotriazole Derivative, Branched Ester	Trade Secret	NONE	NONE	NONE	0.1-1

SECTION 3 NOTES: *INDICATES TOXIC CHEMICAL(S) SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372. ALL COMPONENTS ARE ON THE TSCA LIST. XYLENE STEL= 150PPM (ACGIH) METHYL N-AMYL KETONE STEL (ACGIH)= 100PPM.

NOTE: INGREDIENTS LISTED WITHOUT PERCENTAGES, THE PERCENTAGES ARE CONSIDERED A TRADE SECRET.

SECTION 3 - HAZARDOUS IDENTIFICATION

Hazard Overview

GHS CLASSIFICATION: FLAMMABLE LIQUID CATEGORY 3, SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE CATEGORY 3, ACUTE ORAL TOXICITY CATEGORY 4, SKIN CORROSION/IRRITATION CATEGORY 2, SERIOUS EYE IRRITATION CATEGORY 2A, ACUTE TOXICITY INHALATION CATEGORY 4, ACUTE TOXICITY SKIN CATEGORY 4, SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE CATEGORY 2 ACUTE HAZARD TO AQUATIC ENVIRONMENT CATEGORY 3

GHS LABEL ELEMENTS AND PRECAUTIONARY STATEMENTS:

LABEL ELEMENTS: FLAME, HEALTH HAZARD, EXCLAMATION MARK

HAZARD STATEMENTS:

WARNING: FLAMMABLE LIQUID AND VAPOR.

WARNING: MAY CAUSE RESPIRATORY IRRITATION

WARNING: HARMFUL IF SWALLOWED

WARNING: CAUSES SKIN IRRITATION

WARNING: CAUSES SERIOUS EYE IRRITATION

WARNING: HARMFUL IF INHALED

WARNING: HARMFUL IN CONTACT WITH SKIN.

WARNING: MAY CAUSE DAMAGE TO ORGANS (AUDITORY SYSTEM) THROUGH PROLONGED OR REPEATED EXPOSURE.

HARMFUL TO AQUATIC LIFE.

PRECAUTIONARY STATEMENTS:

P102 KEEP OUT OF REACH OF CHILDREN.

P103 READ LABEL BEFORE USE

P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. — NO SMOKING.

P233 KEEP CONTAINER TIGHTLY CLOSED.

P240 GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT.



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- P241 USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/.../EQUIPMENT.
 P242 USE ONLY NON-SPARKING TOOLS.
 P243 TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE.
 P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.
 P260 DO NOT BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY
 P271 USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
 P264 WASH HANDS THOROUGHLY AFTER HANDLING.
 P270 DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
 P273 AVOID RELEASE TO THE ENVIRONMENT.

RESPONSE

- P303 + P361 + P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.
 P370 + P378 IN CASE OF FIRE: USE FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG. FOR EXTINCTION.
 P304 + P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.
 P312 IF INHALED, CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.
 P301 + P312 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL.
 P330 RINSE MOUTH.
 P302 + P352 IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.
 P333 + P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.
 P362 + P364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.
 P305 + P351 + P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.
 P337 + P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.
 P314 GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL.

STORAGE:

- P403 + P235 STORE IN A WELL-VENTILATED PLACE. KEEP COOL.
 P405 STORE LOCKED UP.
 P233 KEEP CONTAINER TIGHTLY CLOSED.

DISPOSAL:

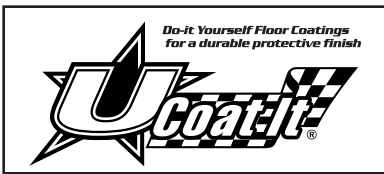
- P501 DISPOSE OF CONTENTS/CONTAINER TO A WASTE DISPOSAL FACILITY IN ACCORDANCE WITH LOCAL, STATE, FEDERAL OR INTERNATIONAL LAWS

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

- EYES:** MAY CAUSE CORNEAL DAMAGE IF LEFT UNTREATED WHICH IS SLOW TO HEAL BUT USUALLY REVERSIBLE.
SKIN: MAY CAUSE IRRITATION OR ALLERGIC RESPONSE. MAY CAUSE DEFATTING, DRYNESS, CRACKING, RASH OR REDNESS OR DERMATITIS.
SKIN ABSORPTION: SOLVENTS CAN PENETRATE THE SKIN CAUSING EFFECTS SIMILAR TO THOSE FOR ACUTE INHALATION SYMPTOMS.
INGESTION: CAN CAUSE IRRITATION TO THE DIGESTIVE TRACT INCLUDING SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. VOMITING MAY CAUSE ASPIRATION OF SOLVENTS RESULTING IN CHEMICAL PNEUMONITIS.
INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: SOLVENT VAPORS ARE IRRITATING TO THE EYES, NOSE AND THROAT AND RESPIRATORY TRACT RESULTING IN DRYNESS OF THE THROAT AND TIGHTNESS IN THE CHEST. OTHER SYMPTOMS INCLUDE HEADACHE, NAUSEA, NARCOSIS, FATIGUE AND LOSS OF APPETITE.



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HEALTH HAZARDS (ACUTE AND CHRONIC):

CHRONIC EXPOSURE TO ORGANIC SOLVENTS HAS BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING BRAIN DAMAGE, NERVOUS SYSTEM DAMAGE OR DEATH. PROLONGED VAPOR CONTACT MAY CAUSE CONJUNCTIVITIS. CHRONIC INHALATION MAY ALSO INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION. CORNEAL DAMAGE IS POSSIBLE BUT USUALLY REVERSIBLE. REPEATED EXPOSURE TO SOLVENTS CAN CAUSE ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE OR CARDIAC ABNORMALITIES.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS

CARCINOGENICITY:

OSHA: NO NTP: NO IARC: YES

ADDITIONAL CARCINOGENICITY INFORMATION:

May Contain Ethyl Benzene (IARC possible carcinogen)

SECTION 4 - FIRST AID MEASURES

EYES: FLUSH EYES WITH WATER FOR AT LEAST FIFTEEN MINUTES AND CONSULT A PHYSICIAN.

SKIN: WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE CONTAMINATED CLOTHING PROMPTLY.

INGESTION: DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT A PHYSICIAN.

INHALATION: REMOVE VICTIM TO FRESH AIR AREA AND ADMINISTER OXYGEN IF NECESSARY. CONSULT A PHYSICIAN IF NECESSARY.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits in Air % by Volume: Lower: Not Available **Upper:** Not Available

Flash point: 100°F

Method Used: SETA Flash

Extinguishing Media: Foam, Alcohol Foam, Co2, Dry Chemical, Water Fog

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT ENTER CONFINED FIRE AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL ALL FIRE EXPOSED CONTAINERS WITH WATER. MINIMIZE CONTACT WITH MATERIAL.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DO NOT ENTER CONFINED FIRE AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL ALL FIRE EXPOSED CONTAINERS WITH WATER. MINIMIZE CONTACT WITH MATERIAL.

SECTION 6 - RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION AND VENTILATE THE AREA. WEAR APPROPRIATE PROTECTIVE EQUIPMENT SUCH AS VAPOR CARTRIDGE OR AIR SUPPLIED RESPIRATOR WHEN NECESSARY. DIKE AND ABSORB THE MATERIAL WITH ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

REMOVE ALL SOURCES OF IGNITION AND VENTILATE THE AREA. WEAR APPROPRIATE PROTECTIVE EQUIPMENT SUCH AS VAPOR CARTRIDGE OR AIR SUPPLIED RESPIRATOR WHEN NECESSARY. DIKE AND ABSORB THE MATERIAL WITH ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS.

OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED LEATHER ARTICLES CANNOT BE CLEANED AND MUST BE DISCARDED IF CONTAMINATED WITH THIS PRODUCT. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEREOF. SUPPLY APPROPRIATE VENTILATION OR ENGINEERING CONTROLS PRIOR TO USING THIS PRODUCT.



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER-EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. USE A POSITIVE PRESSURE RESPIRATOR WHEN AIRBORNE CONCENTRATIONS ARE NOT KNOWN OR IF EXCEEDING TLV'S OR IF WORKING IN A CONFINED SPACE. ALWAYS CONSIDER THE HAZARDS FROM ALL COMPONENTS IN THE MIXED MATERIAL STATE.

VENTILATION: EXHAUST VENTILATION SUFFICIENT TO KEEP THE AIRBORNE CONCENTRATIONS OF THE SOLVENTS AND OTHER HAZARDOUS MATERIALS BELOW THE TOXIC LEVEL CONCENTRATIONS.

PROTECTIVE GLOVES: IMPERVIOUS GLOVES –NEOPRENE OR RUBBER.

EYE PROTECTION: SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS. IF THE ENVIRONMENT WARRANTS, A FULL FACE SHIELD SHOULD BE EMPLOYED. OTHER PROTECTIVE CLOTHING OR EQUIPMENT: SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS. IF THE ENVIRONMENT WARRANTS, A FULL FACE SHIELD SHOULD BE EMPLOYED.

WORK HYGIENIC PRACTICES: OBSERVE GENERAL GOOD HYGIENIC PRACTICES.

SEE SECTION 3 FOR OCCUPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9 - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance And Odor: Low Viscosity Liquid with Ketone Solvent Odor

Boiling Point Or Range °F: 279 to 375 °F

Vapor Density (Air = 1): Not Available

Specific Gravity (H₂O = 1): 1.0

Evaporation Rate: Not Available

Solubility In Water: Negligible

Odor Threshold: N/A

Ph: N/A

Melting Point/Freezing Point: N/A

Vapor Pressure: N/A

Auto Ignition Temperature: N/A

Partition Coefficient: N-Octanol/Water: N/A

Decomposition Temperature: N/A

SECTION 10 - STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to avoid (stability): Avoid excessive heat or open flames. This material should not be mixed with phosphorous containing material or oxidizers

Incompatibility (material to avoid): Can react vigorously with strong oxidizing agents and phosphorous containing material.

Hazardous decomposition or by-products: Carbon Monoxide and Carbon Dioxide.

Hazardous polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Component Data

COMPONENT CAS# 9038-95-3: ACUTE ORAL TOXICITY LD50 = 5370 MG/KG (RAT); ACUTE DERMAL TOXICITY LD50 = 21000 MG/KG (RABBIT); ACUTE INHALATION TOXICITY LC50 = 4670 PPM (RAT); SKIN IRRITATION – SLIGHT IRRITATION (RABBIT); EYE IRRITATION – MILD IRRITATION (RABBIT)

COMPONENT CAS# 108-83-6: ACUTE ORAL TOXICITY LD50 = 5800 MG/KG (RAT); ACUTE DERMAL TOXICITY LD50 = 16000 MG/KG (RABBIT); ACUTE INHALATION TOXICITY LC50 = 2000 PPM (RAT); SKIN IRRITATION – SLIGHT IRRITATION (RABBIT); EYE IRRITATION – MILD EYE IRRITATION (RABBIT)

COMPONENT XYLENE: INHALATION LC50 26800PPM, SKIN LD50 2000 MG/KG, INGESTION LD50 4.3 G/KG. EXPOSURE MAY EFFECT SKIN, EYE, LIVER, KIDNEY, NERVOUS SYSTEM, RESPIRATORY SYSTEM AND LUNGS. HIGH CONCENTRATIONS MAY LEAD TO NERVOUS SYSTEM EFFECTS. REPEATED OVEREXPOSURE HAS PRODUCED TOXIC EFFECTS IN DEVELOPING AND YOUNG LABORATORY ANIMALS. ASPIRATION INTO LUNGS WHEN SWALLOWED OR VOMITED MAY CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. XYLENE MAY CONTAIN ETHYL BENZENE, AND TOLUENE. ETHYL BENZENE HAS SHOWN LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.



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COMPONENT ETHYL BENZENE: ACUTE ORAL TOXICITY LD50: CA. 3500 MG/KG (RAT); ACUTE INHALATION LC50: 17.2 MG/L 4H (RAT); ACUTE DERMAL TOXICITY: 17,800 MG/KG (RABBIT); SKIN IRRITATION RABBIT DRAIZE EXPOSURE TIME 24H – SLIGHTLY IRRITATING. EYE IRRITATION RABBIT DRAIZE – SEVERELY IRRITATING. SENSITIZATION DERMAL (HUMAN PATCH TEST) NON-SENSITIZER. REPEATED DOSE TOXICITY 28 DAYS INHALATION NOAEL: 3.4 MG/L (RABBIT). MUTAGENICITY GENETIC TOXICITY IN VITRO: AMES: NEGATIVE (SALMONELLA TYPHIMURIUM, METABOLIC ACTIVATION WITH/WITHOUT). CARCINOGENECITY: ETHYL BENZENE WAS TESTED BY INHALATION EXPOSURE IN MICE AND RATS. IBN MICE, THERE WAS AN INCREASED INCIDENCE OF LUNG ADENOMAS IN MALES AND LIVER ADENOMAS IN FEMALES. IN MALE RATS, THERE WAS AN INCREASED INCIDENCE OF RENAL TUBULE ADENOMAS AND CARCINOMAS. TWO STUDIES OF WORKERS POTENTIALLY EXPOSED TO ETHYL BENZENE IN A PRODUCTION PLANT AND A STYRENE POLYMERIZATION PLANT,

SHOWED NO EXCESS CANCER INCIDENCE AND NO EXCESS CANCER MORTALITY DURING A 15 YEAR FOLLOW-UP. TOXICITY TO REPRODUCTION/FERTILITY: INHALATION (MONKEY, MALE) REPRODUCTIVE EFFECTS HAVE BEEN OBSERVED IN ANIMAL STUDIES, IN A GENERATION STUDY, INHALATION (RAT/FEMALE) NOAEL (PARENTAL): 100PPM NOAEL (F2): 100PPM. DEVELOPMENTAL TOXICITY/TERATOGENICITY RAT, FEMALE, INHALATION, GESTATION, DAILY, NOAEL (TERATOGENICITY): 100PPM (MATERNAL): 100PPM. TRATOGENIC EFFECTS SEEN ONLY WITH MATERNAL TOXICITY., FETOTOXICITY SEEN ONLY WITH MATERNAL TOXICITY. RABBIT, FEMALE, INHALATION, GESTATION, DAILY, NOAEL (TERATOGENICITY) < 1000 MG/M3, NOAEL (MATERNAL) < 1000 MG/M3.

COMPONENT DIBUTYLIN DILURATE CAS# 77-58-7: ACUTE ORAL TOXICITY (LD50,RAT) 3200.00 MG/KG. ACUTE DERMAL TOXICITY (LD50,RABBIT) >2000 MG/KG (NO DEATHS). ACUTE INHALATION TOXICITY (LC50, RAT) >8.10 MG/L/1 HR. AMES TEST: NEGATIVE (ACTIVATED & NON ACTIVATED) INDUSTRIAL CHEMICALS SUCH AS THIS MATERIAL WITH TOXICITY VALUES SHOWN AND WHOSE VAPORS/MISTS ARE NOT LIKELY TO BE ENCOUNTERED BY HUMANS WHEN USED IN ANY REASONABLY FORESEEABLE MANNER WOULD NOT REQUIRE TOXIC LBL ACCORDING TO U.S. DOMESTIC AND INTERNATIONAL TRANSPORT

LBL ACCORD TO U.S. DOMESTIC & I NTERNATIONAL TRANSPORT REQS. IRRIT EFTS DAT: SEV IRRITANT TO EYES OF RABBIT. MOD IRRITANT TO SKIN OF RABBIT.

COMPONENT CELLULOSE ACETATE BUTYRATE ESTER CAS# 9004-36-8: ORAL LD-50: (RAT): > 3,200 MG/KG (HIGHEST DOSE TESTED). DERMAL LD-50: (GUINEA PIG): > 1,000 MG/KG (HIGHEST DOSE TESTED). SKIN CORROSION: (GUINEA PIG, 24 H): SLIGHT. SKIN SENSITIZATION: NOT A SENSITIZER.

COMPONENT CAS# 110-43-0: ORAL LD 50 (RAT): 1600 MG/KG; ORAL LD50 (MOUSE) 730 MG/KG; INHALATION LC50 (RAT) 2000-4000 PPM, 4 HR. DERMAL LD50 (RABBIT) 10206 MG/KG; DERMAL LD50 (GUINEA PIG) >16200 MG/KG; SKIN IRRITATION (RABBIT) – SLIGHT TO MODERATE; EYE IRRITATION (RABBIT) SLIGHT; SKIN SENSITIZATION (HUMAN) NONE

COMPONENT ADDITIVE NJTSRN 800963-5023: ACUTE ORAL TOXICITY: LD50 RAT>8,000,000 MG/KG; SKIN IRRITATION RABBIT – NO SKIN IRRITATION

COMPONENT(S) LIGHT STABILIZER CAS# TRADE SECRET AND BENZOTRIAZOLE DERIVATIVE, BRANCHED ESTER CAS# TRADE SECRET: ACUTE ORAL TOXICITY:LD50 / ORAL / RAT: > 2,000 MG/KG (BASED ON COMPONENTS). SKIN IRRITATION: NOT EXPECTED TO BE A SKIN IRRITANT. (BASED ON KNOWN COMPONENT INFORMATION). EYE IRRITATION: NOT EXPECTED TO BE AN EYE IRRITANT. (BASED ON COMPONENTS). SKIN IRRITATION: NOT EXPECTED TO BE A SKIN IRRITANT. (BASED ON KNOWN COMPONENT INFORMATION). EYE IRRITATION:

NOT EXPECTED TO BE AN EYE IRRITANT. (BASED ON COMPONENTS). SKIN SENSITIZATION: NOT EXPECTED TO CAUSE SENSITIZATION. (BASED ON KNOWN COMPONENT INFORMATION). SUB CHRONIC TOXICITY: INFORMATION ON: BENZOTRIAZOLE DERIVATIVE, BRANCHED ESTER

IN A 14-DAY STUDY, RATS WERE ADMINISTERED THE ACTIVE INGREDIENT AT 0, 10, 100, OR 1,000 MG/KG BY GAVAGE. THE 100 AND 1,000 MG/KG DOSE LEVELS WERE FOUND TO CAUSE ELEVATED SERUM LIVER ENZYME LEVELS AND ENLARGED LIVERS. THE NO OBSERVABLE EFFECT LEVEL (NOEL) WAS 10 MG/KG. IN A 28-DAY STUDY, RATS WERE ADMINISTERED THE ACTIVE INGREDIENT AT 0, 2, 50, AND 500 MG/KG BY GAVAGE. NO TREATMENT-RELATED CLINICAL OR NEUROLOGICAL SIGNS OF TOXICITY OR MORTALITIES WERE RECORDED. TREATMENT-RELATED EFFECTS, INCLUDING MILD ANEMIA AND TOXIC EFFECTS IN THE LIVER, WERE SEEN. SLIGHT ACTIVITY OF THE THYROID GLAND WAS ALSO RECORDED AND CONSIDERED A SECONDARY RESPONSE TO THE EFFECTS IN THE LIVER. THE NO OBSERVABLE EFFECT LEVEL (NOEL) WAS 2 MG/KG. INFORMATION ON: DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE IN A 28-DAY STUDY, RATS WERE ADMINISTERED DAILY ORAL DOSES OF 10, 100 OR 1000 MG/KG/DAY. MALES ONLY IN THE 1000 MG/KG DOSE GROUP EXHIBITED A REVERSIBLE, MINOR EFFECT ON PROTHROMBIN TIME, AS WELL AS EFFECTS ON THE FORMATION AND DEVELOPMENT OF BLOOD CELLS IN THE LIVER THAT WERE NOT TOTALLY REVERSED BY THE TWO-WEEK RECOVERY PERIOD. THE NO OBSERVABLE EFFECT LEVEL (NOEL) WAS DETERMINED AS 100 MG/KG IN THE MALES AND 1000 MG/KG IN THE FEMALES. PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE INFORMATION ON: DECANEDIOIC ACID, BIS(2,2,6,6-TETRAMETHYL-4- PIPERIDINYL)ESTER, REACTION PRODUCTS WITH TERT-BU HYDROPEROXIDE AND OCTANE. GENETIC TOXICITY: NON-MUTAGENIC (BASED ON COMPOSITION).



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COMPONENT 4-CHLOROBENZOTRIFLUORIDE CAS# 98-56-6: ORAL RAT LD50 >6700 MG/KG. INHALATION RAT LC50 (4 HR) = 4,370 PPM. DERMAL RABBIT LD50 > 2,700 MG/KG. EYE IRRITATION DATA: IN EYE IRRITATION STUDIES, THE COMPOUND WAS FOUND TO BE SLIGHTLY TO MODERATELY IRRITATING. SKIN IRRITATION DATA: IN SKIN IRRITATION STUDIES, THE COMPOUND WAS FOUND TO BE SLIGHTLY TO MODERATELY IRRITATING. SKIN SENSITIZATION DATA: NO SKIN SENSITIZATION DATA ARE AVAILABLE ON THIS MATERIAL. SUB CHRONIC DATA: A 13-WEEK INHALATION STUDY WAS CONDUCTED IN RATS EXPOSED FOR 6 HOURS PER DAY, 5 DAYS A WEEK AT CONCENTRATIONS OF 0, 10, 51, OR 252 PPM. AN INCREASE IN LIVER WEIGHTS WAS SEEN IN THE HIGH DOSE GROUP. NO MACROSCOPIC EFFECTS WERE NOTED. NO ADVERSE CENTRAL NERVOUS SYSTEM EFFECTS WERE OBSERVED AS MEASURED BY MOTOR ACTIVITY, FUNCTIONAL OBSERVATION BATTERY, OR NEUROPATHOLOGY. IN A SEPARATE STUDY, RATS WERE DOSED DAILY VIA ORAL GAVAGE FOR THREE MONTHS AT 0, 10, 40, 150, OR 500 MG/KG. EFFECTS NOTED INCLUDED INITIAL DECREASE IN BODY WEIGHT GAIN, DECREASED FOOD CONSUMPTION, AND CHANGES IN BIOCHEMICAL PARAMETERS. INCREASES WERE NOTED IN LIVER, KIDNEY, AND THYROID WEIGHTS IN BOTH SEXES IN MOST TREATMENT GROUPS. MICROSCOPIC EFFECTS WERE ALSO OBSERVED IN THESE SAME ORGANS. NO OVERT PHYSICAL SIGNS OF TOXICITY WERE OBSERVED DURING TREATMENT. EFFECTS SIMILAR TO THOSE DESCRIBED IN THE ABOVE TWO STUDIES HAVE ALSO BEEN OBSERVED IN SHORTER INHALATION AND ORAL GAVAGE TESTING. REPRODUCTIVE TOXICITY: IN A TWO-GENERATION REPRODUCTION STUDY RATS WERE EXPOSED DAILY VIA ORAL GAVAGE AT DOSES OF 0, 5, 15, AND 45 MG/KG. ONLY LIMITED REPRODUCTIVE EFFECTS WERE NOTED. TERATOGENICITY (BIRTH DEFECTS): NO TERATOGENICITY DATA ARE AVAILABLE ON THIS MATERIAL. MUTAGENICITY: THIS MATERIAL WAS FOUND TO BE NEGATIVE IN THE FOLLOWING IN VITRO MUTAGENICITY STUDIES: CHROMOSOMAL ABERRATION STUDY, CELL TRANSFORMATION ASSAY, DNA REPAIR DEFICIENCY ASSAY, AND THE MOUSE LYMPHOMA FORWARD MUTATION ASSAY. IN THE IN VITRO AMES TEST, THE COMPOUND WAS GENERALLY FOUND TO BE NEGATIVE; HOWEVER TWO STRAINS AT THE HIGH DOSE PRODUCED POSITIVE RESULTS. IN THE IN VITRO SISTER CHROMATID EXCHANGE TEST, THE COMPOUND PRODUCED POSITIVE RESULTS. IN THE IN VIVO CYTOGENETIC ASSAY IN RATS, THE COMPOUND WAS FOUND TO BE NEGATIVE.

SECTION 12 - ECOLOGICAL INFORMATION

No data for the product itself.

Component Data :

Component Acetic Acid: Eco toxicity in water(LC50) 423 mg/l 24 hours [Fish (goldfish)] , 88 ppm 96 hours [Fish (fathead minnow)], 75ppm 96 hours [Fish (bluegill sunfish)] >100 ppm 96 hours [Daphnia]. BOD-5: 0.34-0.88 g/oxygen/g

Component CAS@ 107-98-2: Bio concentration potential is low (BCF less than 100). Potential for mobility in soil is high (KOC between 0 and 50). Material is readily biodegradable and is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100mg/l in the most sensitive species tested.. LC50 fathead minnow 96 hr 20800 mg/l, LC50 water flea 48 hr lethally 23300 mg/l, EbC50 green algae biomass growth inhibition 7 d >1000 mg/l. Toxicity to microorganisms IC50 activated sludge > 1000 mg/l

Component Silicon Dioxide: There is no data that suggests that crystalline silica is toxic to birds, fish, invertebrates, microorganisms or plants.

Component talc CAS# 14807-96-6: There is no data that suggests that crystalline silica is toxic to birds, fish, invertebrates, microorganisms or plants.

Component Titanium Dioxide: Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitata (green algae) 61 mg/l @ 72h EC50; Daphnia magna (water flea) > 1000 mg/l @ 48h EC50

Component CAS# 112-57-2: The products of degradation are less toxic than the product itself.

Component Triethanolamine CAS# 102-71-6: LC50/96hr/48hr/24hr = 450 – 1000 mg/l (bluegill/96hr); 11800 mg/l (fresh water fish/96hr); 1386 mg/l (daphnia Magna/24hr); 169mg/l (algae/96hr).

SECTION 13 - WASTE DISPOSAL

Waste disposal method: Dispose of the material in a waste disposal site in accordance with local, state, and federal law.

SECTION 14 - ECOLOGICAL INFORMATION

Dot: Not Regulated

Imo/Imdg: Not Regulated



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SECTION 15 - ECOLOGICAL INFORMATION

Component Data:

Component CAS# 4067-16-7, 112-57-2, 111-40-0, 107-15-3 on TSCS List, OSHA hazard class – Irritant. Regulatory List: On TSCA, on EINECS, DSL, AICS, ENCS, ECL, SEPA, PICCS.

Component Acetic Acid: On the Right to Know list for Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, New Jersey, and California director's List of hazardous substances. Listed on TSCA. Listed on DSL Canada, European Inventory. EEC R-35 Causes severe burns.

Component CAS# 107-98-2; on the PA right to know list. Product is on the TSCA list and DSL Canada

Component CAS# 111-76-2: Section 313 toxic Chemical. Section 311 hazard category – Chronic fire, On TSCA list. May contain trace components of benzene, toluene, ethylbenzene and NJTSRN 800963-5170 and contains chemicals known to the state of California to cause cancer and birth defects. All components on the DSL Canada

Component CAS# 8052-41-3: Component is on the TSCA and Canada DSL lists. Component is on the Pennsylvania, California, New Jersey Massachusetts and Minnesota right to know lists.

Component CAS# 12001-26-2: On TSCA list. DSL Canada Listed and is considered an uncontrolled product. Although not on the California Proposition 65 list, it may contain ppm quantities of materials regulated under California's safe drinking water and toxic enforcement act of 1986. such as Crystalline Silica (Silicon Dioxide) is on the TSCA list. NTP list as a known human carcinogen, California proposition 65 list as a known carcinogen, Massachusetts Toxic Use Reduction Act list as toxic, Pennsylvania Worker and community right to know Act list as a hazardous substance.

Component Crystalline Silica (Silicon Dioxide) is on the Canada DSL – WHMIS Classification D2A Crystalline Silica is on the Australian Inventory of Chemicals Substances list, Japan Ministry of International Trade and Industry list, Korea Existing Chemicals Inventory with registry number 9212-5667 and the Philippines Inventory of Chemicals and Chemical Substances list.

Component Ethylene Glycol CAS# 107-21-1: This component is a listed as an air pollutant under the clean air act (112). This component is subject to reporting requirements of section 313 of title III of the superfund amendments and reauthorization act of 1986 and 40CFR part 372. This component is a CERCLA listed chemical. This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-5043P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-5032P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component diethylene Glycol CAS# 111-46-6: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component talc CAS# 14807-96-6 may contain Crystalline Silica (Silicon Dioxide) which is on the TSCA list. NTP list as a known human carcinogen, California proposition 65 list as a known carcinogen, Massachusetts Toxic Use Reduction Act list as toxic, Pennsylvania Worker and community right to know Act list as a hazardous substance.

Component Chlorite CAS# 71949-90-1: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-5756P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-6584P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-5024P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component NJTSRN 56705700001-5023P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component NJTSRN 56705700001-5727P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component NJTSRN 56705700001-5749P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component NJTSRN 56705700001-5579P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component NJTSRN 56705700001-5030P: This Component is listed on the Canada DSL, TSCA, lists.

Component Iron Oxide CAS# 1332-37-2: This Component is listed on the Canada DSL, TSCA, lists.

Component Petroleum distillates CAS# 64741-88-4: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component Petroleum distillates CAS# 64741-89-5: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Iron hydroxide oxide CAS# 20344-49-4: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, lists.

Component NJTSRN 56705700001-5747: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component Tributyl phosphate CAS# 126-73-8: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component Barium Sulfate CAS# 7727-43-7: This Component is listed on the Canada DSL, TSCA, EINECS, AICS,

Component isopropanol CAS# 67-63-0: This component is on the TSCA and Canada DSL lists.

Component NJTSRN 56705700001-5578P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-5572P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.



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Component NJTSRN 56705700001-5653P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-5071P: This Component is listed on the Canada DSL, TSCA, lists.

Component NJTSRN 56705700001-5704P: This Component is listed on the Canada DSL, TSCA, lists.

Component NJTSRN 56705700001-5756P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component Chlorite CAS# 71949-90-1: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-6031P: This Component is listed on the Canada DSL, TSCA, lists.

Component NJTSRN 56705700001-6861P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component NJTSRN 56705700001-6584P: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component Titanium Dioxide: Contains Proposition 65 Chemicals, is on the PA Hazardous substance list, is on the NJ right to know Regulated chemical List. Titanium Dioxide is on inventory or in compliance with EINECS, TSCA, AICS, DSL, ENCS (JP), KECI (KR), PICCS (PH) and INV (CN).

Component Kaolin CAS# 1332-58-7: This Component is listed on the Canada DSL, TSCA, EINECS, AICS, TCCL, PICCS lists.

Component CAS# 12001-26-2: On TSCA list. DSL Canada Listed and is considered an uncontrolled product. Although not on the California Proposition 65 list, it may contain ppm quantities of materials regulated under California's safe drinking water and toxic enforcement act of 1986 such as Crystalline Silica (Silicon Dioxide) is on the TSCA list. NTP list as a known human carcinogen, California proposition 65 list as a known carcinogen, Massachusetts Toxic Use Reduction Act list as toxic, Pennsylvania Worker and community right to know Act list as a hazardous substance.

Component CAS# 112-57-2: is on Pennsylvania RTK:Massachusetts RTK: New Jersey: Harmful in contact with skin and if swallowed. Causes burns. May cause sensitization by skin contact.

Component Triethanolamine CAS# 102-71-6: Component is on the TSCA, Canada DSL, EINECS, ESCS, KECL, HSNO, NECSI, AICS and ENCS lists.

SECTION 16 - ECOLOGICAL INFORMATION

Disclaimer: the information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.



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SECTION 1 - PRODUCT AND MANUFACTURER IDENTIFICATION

Manufacturer's Name: UCoat It America, LLC.
Address: 1797 Atlantic Blvd., Auburn Hills, MI 48326
Date Revised: 05-15-15

Emergency Phone: Chemtrec - 1(800) 424-9300
Information Phone: 248-545-4055
Fax: 248-393-4300

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A	25068-38-6	NONE	NONE	NONE	60-100
ALKYL GLYCIDYL ETHER	68609-97-2	NONE	NONE	NONE	10-30

SECTION 3 NOTES:

No toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372 are present.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 3 - HAZARDOUS IDENTIFICATION

Hazard Overview

GHS Classification: Serious eye damage/Eye irritation category 2A, Skin irritation category 2, skin sensitizer category 1, Long term hazards to aquatic environment Category 2

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark, Aquatic Toxicity

Hazard Statements:

Warning: Causes serious eye irritation.

Warning: Causes skin irritation

Warning: May cause an allergic skin reaction

Toxic to aquatic life with long lasting effects

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

Response:

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: B



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POTENTIAL HEALTH EFFECTS

EYES: MAY CAUSE IRRITATION BUT NO CORNEAL INJURY IS LIKELY.

SKIN: MAY CAUSE IRRITATION OR ALLERGIC SKIN RESPONSE.

INGESTION: THIS MATERIAL HAS A PROBABLE LOW ACUTE ORAL TOXICITY.

INHALATION: NO GUIDE FOR CONTROL KNOWN, HOWEVER, EXPOSURE TO HEATED VAPORS CAN CAUSE IRRITATION TO THE NOSE, THROAT OR MUCOUS MEMBRANES.

HEALTH HAZARDS (ACUTE AND CHRONIC): EPOXY RESINS CAN CAUSE SENSITIZATION BY EXPOSURE THROUGH CONTACT OR HIGH CONCENTRATIONS OF VAPOR. EYES: INJURY IS UNLIKELY BUT STAIN FOR EVIDENCE OF CORNEAL INJURY.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: RESPIRATORY INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

CARCINOGENICITY:

OSHA: NO NTP: NO IARC: NO

ADDITIONAL CARCINOGENICITY INFORMATION:

May Contain Ethyl Benzene (IARC possible carcinogen)

SECTION 4 - FIRST AID MEASURES

EYES: FLUSH EYES WITH WATER FOR AT LEAST FIFTEEN MINUTES AND CONSULT A PHYSICIAN.

SKIN: SKIN CONTACT WILL NORMALLY CAUSE NO MORE THAN IRRITATION BUT WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE CONTAMINATED CLOTHING PROMPTLY.

INGESTION: LOW IN TOXICITY, INDUCE VOMITING ONLY IF LARGE AMOUNTS OF MATERIAL ARE INGESTED, AND OTHERWISE DO NOT INDUCE VOMITING. IN EITHER CASE IMMEDIATELY CONSULT A PHYSICIAN.

INHALATION: REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits in Air % by Volume: Lower: Not Available **Upper:** Not Available

Flash point: 200°F

Method Used: SETA Flash

Extinguishing Media: Foam, Alcohol Foam, Co2, Dry Chemical, Water Fog

SPECIAL FIRE FIGHTING PROCEDURES: DO NOT ENTER CONFINED FIRE AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL ALL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NO UNUSUAL FIRE HAZARDS KNOWN

SECTION 6 - RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR RESPIRATOR AND PROTECTIVE CLOTHING, SHUT OFF THE SOURCE AT THE LEAK. REMOVE EXCESS WITH VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBENT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. FLUSH AREA WITH WATER TO REMOVE RESIDUE.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS'S OF ALL THE COMPONENTS PRIOR TO USING MATERIAL. PROPERLY LABEL ALL CONTAINERS.

OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED LEATHER ARTICLES CAN NOT BE CLEANED AND MUST BE DISCARDED IF CONTAMINATED WITH THIS PRODUCT. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEREOF.



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION: USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134. GENERAL EXHAUST IS USUALLY SUFFICIENT IN LIEU OF NIOSH RESPIRATOR.

VENTILATION: GENERAL EXHAUST IS USUALLY SUFFICIENT TO CONTROL VAPORS AND EXPOSURE HAZARDS.

PROTECTIVE GLOVES: IMPERVIOUS GLOVES – NEOPRENE OR RUBBER

EYE PROTECTION: SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: WEAR BODY COVERING CLOTHING AND OTHER COVERINGS AS NECESSARY SUCH AS APRON AND APPROPRIATE FOOTWEAR TO AVOID CONTACT WITH MATERIAL.

WORK HYGIENIC PRACTICES: OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION 3 FOR OCCUPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9 - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance And Odor: Low Viscosity Liquid - Amber Clear

Boiling Point Or Range °F: 200+°F

Vapor Density (Air = 1): Not Available

Specific Gravity (H₂O = 1): 1.1

Evaporation Rate: Not Available

Solubility In Water: Negligible

Odor Threshold: N/A

Ph: N/A

Melting Point/Freezing Point: N/A

Vapor Pressure: N/A

Auto Ignition Temperature: N/A

Partition Coefficient: N-Octanol/Water: N/A

Decomposition Temperature: N/A

SECTION 10 - STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to avoid (stability): Avoid excessive heat or open flames.

Incompatibility (material to avoid): Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids.

Hazardous decomposition or by-products: CO₂, Aldehydes, acids. Reactions with some curing agents can generate large amounts of heat.

Hazardous polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Component Data

Component CAS# 25068-38-6: Moderate sensitizer, slight eye irritant, moderate skin irritant, Oral LD50 >5000 mg/kg (rat), Dermal LD50 >6000 mg/kg (rabbit)

Component CAS# 68609-97-2: Possible sensitizer, eye and skin irritant, Oral LD50 >10000 mg/kg (rat), Inhalation LD50 – no microscopic changes.

SECTION 12 - ECOLOGICAL INFORMATION

No data for the product itself.

Component Data :

CComponent CAS# 25068-38-6: Biodegradability (Modified Sturm Method) 12%, Fish toxicity: Rainbow trout (96hr) LC50 1.5mg/l, Zebra Fish (96hr) LC50 2.4 mg/l. Invertebrate Toxicity: Daphnia Toxicity (24hr) EC 50 3.6 mg/l.



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SECTION 13 - WASTE DISPOSAL

Waste disposal method: Dispose of the material in a waste disposal site in accordance with local, state, and federal law.

SECTION 14 - ECOLOGICAL INFORMATION

Dot: Not Regulated

Imo/Imdg: UN3082, Environmentally hazardous substances, liquid, N.O.S (CONTAINS Bisphenol A Diglycidyl Ether Polymer), 9, PGIII Marine Pollutant.

SECTION 15 - ECOLOGICAL INFORMATION

Component Data:

Component CAS# 25068-38-6: Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada, WHMIS class D2B; Is on the New Jersey Right to Know list; is on the PA Right to Know List;

Component CAS# 68609-97-2: Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada, Is on the New Jersey Right to Know list; is on the PA Right to Know List.

EPA SARA Title III Section 313 components above the de minimus level: NONE.

SECTION 16 - ECOLOGICAL INFORMATION

Disclaimer: the information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.