SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 2215 PART A PRODUCT CODES: 2215 A

MANUFACTURER/DISTRIBUTOR: Epoxy Systems, Inc. STREET ADDRESS: 20774 W. Pennsylvania Ave

CITY, STATE, ZIP: Dunnellon, FL 34431

INFORMATION PHONE: 352-533-2167

EMERGENCY PHONE: PERS 1-800-633-8253

FAX PHONE: 352-489-1625

PREPARED BY: Norm Lambert

DATE REVISED: 3/10/21

Chemical Name or Class: Epoxy mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

PRODUCT CODE: 2215

GHS Classification: (Skin corrosion/irritation category 2), (Serious eye damage/Eye irritation category 2B), (Sensitization, skin category 1), (Hazardous to the aquatic environment, long term hazard Category 3)

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark



Hazard Statements:

H315 Warning: Causes skin irritation H320 Warning: Causes eye irritation.

H317 Warning: May cause an allergic skin reaction H412 Harmful 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.

P321 Specific treatment (see on this label)

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.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws Other Non-classifiable potential hazards

Carcinogen category 2

HMIS HAZARD CLASSIFICATION

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

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 CONCENTRATION OF VAPOR. EYES: INJURY IF UNLIKELY BUT STAIN FOR EVIDENCE OF CORNEAL INJURY.

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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS.

CARCINOGENICITY

OSHA: NO OSHA: NO NTP: yes IAF ADDITIONAL CARCINOGENICITY INFORMATION: NTP: IARC: yes

Some colors may contain carbon black - Explanation of Carcinogenicity for carbon: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT MODIFIED DIGLYCIDYL ETHER OF	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %					
BISPENOL A	25068-38-6	NONE	NONE	NONE	60-100					
ALKYL GLYCIDYL ETHER	68609-97-2	NONE	NONE	NONE	10-30					
HYDROCARBON RESIN	PROPRIETARY	NONE	NONE	NONE	1-5					
*Naphthalene	91-20-3	10ppm	10ppm	NONE	<0.01					
•	RIETARY NONE	NONE	NONE	1-5	10.01					
BENZYL ALCOHOL	100-51-6	NONE	NONE	NONE	1-5					
DIBENZYL ETHER	103-50-4	NONE	NONE	NONE	<0.01					
NAPHTHA, PETROLEUM, HYDRODESULFURIZED HEAVY										
	64742-82-1	NONE	NONE	NONE	0.1-1					
Polyphosphoric acids, reaction products with 2-oxepanone and polyethylene glycol monomethyl ether										
	162627-21-6	NONE	NONE	NONE	0.1-1					
1-Methoxy-2-Propanol Acetate	108-65-6	NONE	NONE	NONE	<0.1					
Solvent Naphtha, petroleum, Light Aromatic	64742-95-6	50PPM	400PPM	NONE	<0.1					
Cumene (component of Solvent Naphtha, petroleum, light aromatic)										
	98-82-8	50ppm	50ppm	NONE	<0.01					
Phosphoric acid (residual)	7664-38-2	1mg/m³	3mg/m³	3mg/m³	<0.01					
Colors may contain @ 3-7%:										
Titanium Dioxide	13463-67-7	15mg/m3	10mg/m3	NONE						
*CARBON	1333-86-4	3.5mg/m ³ 3 mg/m		<1.0						
Precipitated Silica	112926-00-8	NONE	80mg/m3	NONE						
Iron III oxide	1309-37-1	5mg/m3	5mg/m3	NONE						
Yellow Pigment	Not available	NONE	NONE	NONE						
Zinc Sulfide (component of yellow pigment)										
1314-98-3 NONE NONE	NONE									
Barium Sulfate (component of yellow pigme	,									
7727-43-7 NONE NONE	NONE									
Titanium Dioxide (component of yellow pigm										
13463-67-7 NONE NONE	NONE									
Pigment yellow 65 (component of yellow pig										
6528-34-3 NONE NONE	NONE									
Iron III hydroxide	20344-49-4	15mg/m 3	5mg/m3	NONE						
C.I. Pigment Blue	147-14-8	1mg/m3	1mg/m3	NONE						
Aluminum Oxide	1344-28-1	15mg/m3	10mg/m3	NONE						
Silica, amorphous	7631-86-9	80mg/m3	10mg/m3	NONE						
Iron Oxide Yellow	51274-00-1	15mg/m3	10mg/m3	NONE						

SECTION 3 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372. This products contains trace amounts the following toxic chemicals: 1,2,4-Trimethylbenzene (CAS# 95-63-6) @ 0.016%

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

SECTION 4: FIRST AID MEASURES

FLUSH EYES THOROUGHLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES AFTER THE INITIAL 1-2 MINUTES AND CONTINUE FLUSHING FOR SEVERAL ADDITIONAL MINUTES. IF EFFECTS OCCUR, CONSULT A PHYSICIAN, PREFERABLY AN OPHTHALMOLOGIST. SUITABLE EMERGENCY EYE WASH FACILITY SHOULD BE AVAILABLE IN WORK AREA.

REMOVE MATERIAL FROM SKIN IMMEDIATELY BY WASHING WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES WHILE WASHING. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE. DISCARD ITEMS WHICH CANNOT BE DECONTAMINATED, INCLUDING LEATHER ARTICLES SUCH AS SHOES, BELTS AND WATCHBANDS.

INGESTION:

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

REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY. IF EFFECTS OCCUR, CONSULT A PHYSICIAN. NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

IF BURN IS PRESENT, TREAT AS ANY THERMAL BURN AFTER DECONTAMINATION. NO SPECIFIC ANTIDOTE, TREATMENT OF EXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: not available (% by volume) LOWER: not available

FLASH POINT: 200+F **METHOD USED:** SFTA FLASH

EXTINGUISHING MEDIA:

FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG. DO NOT USE DIRECT WATER STREAM, MAY SPREAD FIRE. SPECIAL PROTECTIVE EQUIPMENT:

WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE FIRE FIGHTING CLOTHING. AVOID CONTACT WITH THIS MATERIAL DURING FIRE FIGHTING OPERATIONS. IF CONTACT IS LIKELY, CHANGE TO FULL CHEMICAL RESISTANT FIRE FIGHTING CLOTHING WITH SELF-CONTAINED BREATHING APPARATUS. IF THIS IS NOT AVAILABLE. WEAR FULL CHEMICAL RESISTANT CLOTHING WITH SELF-CONTAINED BREATHING APPARATUS AND FIGHT FIRE FROM A REMOTE

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP PEOPLE AWAY, ISOLATE FIRE AND DENY UNNECESSARY ENTRY, USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS AND FIRE AFFECTED ZONE UNTIL FIRE IS OUT AND DANGER OF REIGNITION HAS PASSED. FIGHT FIRE FROM PROTECTED LOCATION AT SAFE DISTANCE. CONSIDER THE USE OF UNMANNED HOSE HOLDERS OR MONITOR NOZZLES. IMMEDIATELY WITHDRAW ALL PERSONNEL FROM THE AREA IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR DISCOLORATION OF THE CONTAINER. DO NOT USE DIRECT WATER STREAM, IT MAY SPREAD THE FIRE, MOVE CONTAINER FROM FIRE AREA IF POSSIBLE WITHOUT HAZARD. BURNING LIQUIDS MAY BÉ MOVED BY FLUSHING WITH WATER TO PROTECT PERSONNEL AND MINIMIZE PROPERTY DAMAGE. WATER FOG, APPLIED GENTLY MAY BE USED AS A BLANKET FOR FIRE EXTINGUISHMENT, CONTAIN FIRE WATER RUN-OFF IF POSSIBLE, FIRE WATER RUN-OFF, IF NOT CONTAINED, MAY CAUSE **ENVIRONMENTAL DAMAGE.**

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINER MAY RUPTURE FROM GAS GENERATION IN A FIRE SITUATION. VIOLENT STEAM GENERATION OR ERUPTION MAY OCCUR UPON APPLICATION OF DIRECT WATER STREAM TO HOT LIQUIDS. DENSE SMOKE IS EMITTED WHEN BURNED WITHOUT SUFFICIENT OXYGEN.

SECTION 6: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

ISOLATE THE AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING THE AREA. USE APPROPRIATE SAFETY EQUIPMENT. CONTAIN SPILLED MATERIAL IF POSSIBLE. PREVENT FROM ENTERING INTO SOIL, DITCHES, SEWARS, WATERWAYS AND/OR GROUNDWATER. ABSORB WITH MATERIALS SUCH AS: SAND, POLYPROPYLENE FIBER PRODUCTS OR POLYETHYLENE FIBER PRODUCTS. REMOVE RESIDUAL WITH SOAP AND HOT WATER. COLLECT IN SUITABLE AND PROPERLY LABELED CONTAINERS. RESIDUAL CAN BE REMOVED WITH SOLVENT AS LONG AS EXPOSURE GUIDELINES AND SAFE HANDLING MEASURES ARE FOLLOWED.

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 SDS'S OF ALL THE COMPONENTS PRIOR TO USING MATERIAL. PROPERLY LABEL ALL CONTAINERS OTHER PRECAUTIONS:

AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

RESPIRATORY PROTECTION SHOULD BE WORN WHEN THERE IS A POTENTIAL TO EXCEED THE EXPOSURE LIMIT REQUIREMENTS OR GUIDELINES. IF THERE ARE NO APPLICABLE EXPOSURE LIMIT REQUIREMENTS OR GUIDELINES, WEAR RESPIRATORY PROTECTION WHEN ADVERSE EFFECTS, SUCH AS RESPIRATORY IRRITATION OR DISCOMFORT HAVE BEEN EXPERIENCED OR WHERE INDICATED BY YOUR RISK ASSESSMENT PROCESS. FOR MOST CONDITIONS, NO RESPIRATORY PROTECTION SHOULD BE NEEDED: HOWEVER, IF MATERIAL IS HEATED OR SPRAYED, USE AN APPROVED AIR-PURIFYING RESPIRATOR (ORGANIC VAPOR CARTRIDGE WITH A PARTICULATE PRE-FILTER).

GENERAL EXHAUST IS USUALLY SUFFICIENT TO CONTROL VAPORS AND EXPOSURE HAZARDS

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES - NEOPRENE OR RUBBER

EYE PROTECTION:

VENTILATION:

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.

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WORK HYGIENIC PRACTICES:

OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: MEDIUM VISCOSITY LIQUID IN VARYING COLORS

BOILING POINT OR RANGE: 200 TO 279F

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H20 = 1): 1.1 - 1.2

EVAPORATION RATE: N/A

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

STABILITY:

STABLE UNDER RECOMMENDED STORAGE CONDITIONS

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. REACTION WITH SOME CURING AGENTS CAN GENERATE LARGE AMOUNTS OF HEAT.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR BY ITSELF

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Acute Oral Toxicity:

Component data MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A (CAS# 25068-38-6): LD50, rat > 5000 mg/kg

Component Benzyl Alcohol (CAS# 100-51-6): LD50, oral, rat, male, 1620 mg/kg

Component Dibenzyl Ether (CAS# 103-50-4): LD50, oral, rat, male/female, 3860 mg/kg (OECD 401)

Component Naphtha, Petroleum, Hydrodesulfurized Heavy (CAS# 64742-82-1): LD50 rat, > 5000 mg/kg

Component 1-Methoxy-2-Propanol Acetate (CAS# 108-65-6): LD50 rat, female: 5155 mg/kg

Component Solvent Naphtha, petroleum, Light Aromatic (CAS# 64742-95-6): LD50 rat, > 4000 mg/kg

Component Phosphoric acid (residual) (CAS# 7664-38-2): LD50 rat: 1530 mg/kg

Component Cumene (component of Solvent Naphtha, petroleum, light aromatic) (CAS# 98-82-8): LD50 rat: 1400 mg/kg

Component Carbon (CAS# 1333-86-4): LD50 rat: > 8000 mg/kg

Component Titanium Dioxide (CAS# 13463-67-7: LD50 > 5000 mg/kg, rat

Component Iron III oxide CAS# 1309-37-1: LD50 >5000 mg/kg (rat)

Component Iron III hydroxide CAS# 20344-49-4: LD50 >5000 mg/kg (rat).

Component Precipitated silica CAS# 112926-00-8: LD50 (rat >5000 mg/kg

Acute Dermal Toxicity:

Component data MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A (CAS# 25068-38-6): LD50, rabbit > 20000 mg/kg

Component HYDROCARBON RESIN: Causes skin irritation through prolonged or repeated exposure Component HYDROXY MODIFIED RESIN: Causes skin irritation. May cause allergic skin reaction.

Component Naphtha, Petroleum, Hydrodesulfurized Heavy (CAS# 64742-82-1): LD50 rabbit, > 3000 mg/kg

Component 1-Methoxy-2-Propanol Acetate (CAS# 108-65-6): LD50 rabbit: > 5000 mg/kg

Component Solvent Naphtha, petroleum, Light Aromatic (CAS# 64742-95-6): LD50 rabbit: > 3480 mg/kg

Component Precipitated silica CAS# 112926-00-8: LD50 (rat) >2000 mg/kg

Acute Inhalation Toxicity:

At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material, mist or aerosols may cause respiratory irritation.

Component data ALKYL GLYCIDYL ETHER (CAS# 68609-97-2): Excessive exposure may cause irritation to upper respiratory tract (nose and throat). LC50, rat, 4h, dust/mist, 0.206 mg/l, no deaths occurred following exposure to a saturated atmosphere.

Component Benzyl Alcohol (CAS# 100-51-6): LC50, inhalation dusts and mists, rat, >4178 mg/m³, 4h (OECD 403)

Component Naphtha, Petroleum, Hydrodesulfurized Heavy (CAS# 64742-82-1): LC50 rat, > 11.6 mg/l

Component 1-Methoxy-2-Propanol Acetate (CAS# 108-65-6): LC50 rat, 4h > 100ppm

Component Solvent Naphtha, petroleum, Light Aromatic (CAS# 64742-95-6): LC50 rat, 4h: 3670 ppm

Component Titanium Dioxide (CAS# 13463-67-7): 4 h LC50 > 6.82 mg/l

Skin Corrosion/Irritation:

Prolonged contact may cause skin irritation with local redness. Repeated contact may cause burns. Symptoms may include pain, severe local redness, swelling, and tissue damage.

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Serious eye damage/irritation:

May cause eye irritation. Corneal injury is unlikely.

Sensitization:

Component Dibenzyl Ether (CAS# 103-50-4): guinea pig, skin, sensitizing. Mouse, skin, sensitizing.

Specific Target Organ Toxicity (single exposure):

Component Benzyl Alcohol (CAS# 100-51-6): Chronic NOAEL Oral, rat, male/female, 400 mg/kg, 103 weeks; 5 days/week

Sub-acute NOAEC Inhalation dusts and mists, rat, male/female, 1072 mg/m³, 4 weeks; 6 hours/day

Component Dibenzyl Ether (CAS# 103-50-4): Sub-chronic NOAEL oral, rat, male/female, 620 mg/kg, 91 days; 7 days/week

Specific Target Organ Toxicity (repeated exposure):

Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects. Solvent absorption by inhalation and/or repeated skin contact may cause injury to liver, kidney and respiratory system.

Carcinogenicity:

product contains trace amounts of Cumene CAS# 98-82-8, which is an IARC Group 2B (possibly carcinogenic to humans) and listed by NTP as reasonably anticipated to be a human carcinogen

Component Carbon (CAS# 1333-86-4): IARC Group 2B (possibly carcinogenic to humans), NTP (reasonably anticipated to be a human carcinogen)

Component Titanium Dioxide (CAS# 13463-67-7): IARC Group 2B (possibly carcinogenic to humans)

Teratogenicity:

Component data MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A (CAS# 25068-38-6): no birth defects or other adverse effects found **Reproductive Toxicity:**

Component Benzyl Alcohol (CAS# 100-51-6): mouse, female, oral: 550 mg/kg NOAEL, 10 days; 7 days/week

Mouse, female, oral: 750 mg/kg LOAEL, 8 days; 7 days/week

Mutagenicity:

Component Benzyl Alcohol (CAS# 100-51-6): OECD 471 Bacterial Reverse Mutation test, in vitro, mammalian-animal, positive result

OECD 476 Mammalian Cell Gene Mutation Test with metabolic activation, in vitro, mammalian-animal, negative result

OECD 473 Mammalian Chromosomal Aberration Test without metabolic activation, in vitro, mammalian-animal, negative result

OECD 477 Genetic Toxicology: Sex-linked recessive lethal test in Drosophila Melanogaster, in vivo, insect, negative result

OECD 474 Mammalian Erythrocyte Micronucleus Test, in vitro, mammalian animal, negative result

Component Dibenzyl Ether (CAS# 103-50-4): OECD 471 Bacterial Reverse Mutation Test, in vitro, bacteria w/wo S9 mix, negative result

OECD 476 Mammalian Cell Gene Mutation Test, in vitro, mammalian animal, negative result

OECD 487 Micronucleus Test, in vitro, mammalian-human, negative

Aspiration Hazard:

Component Solvent Naphtha, petroleum, Light Aromatic (CAS# 64742-95-6): This component is known to cause or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A (CAS# 25068-38-6):

Acute toxicity to Fish: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L is the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), semi-static test, 96h, 2mg/l

Acute toxicity to aquatic invertebrates: EC50, daphnia magna (water flea), static test, 48h, 1.8 mg/l

Acute toxicity to algae/aquatic plants: ErC50, Scenedesmus capricornutum (fresh water algae), static test, 72h, growth rate inhibition, 11mg/l Toxicity to bacteria: IC50, bacteria, 18h, respiration rates > 42.6 mg/l

Chronic toxicity to aquatic invertebrates: NOEC, daphnia magna (water flea), semi-static test, 21d, number of offspring, 0.3 mg/l

MATC (Maximum Acceptable Toxicant Level), daphnia magna (water flea), semi-static test, 21d, number of offspring, 0.55mg/l

Biodegradability: not considered readily biodegradable (12%), 28d (OECD 302B)

Photodegradation: half-life (indirect photolysis), OH radicals, Atmospheric half-life 1.92h (estimated)

Bioaccumulation: moderate (BCF 100-3000 or Log Pow 3-5)

Partition coefficient: n-octanol/water(log Pow): 3.242 @ 25C (estimated)

Mobility in soil: low potential (Koc 500-2000)

Partition coefficient (Koc): 1800-4400 (estimated)

ALKYL GLYCIDYL ETHER (CAS# 68609-97-2):

Acute toxicity to fish: Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life. LC50, Oncornhynchus mykiss (rainbow trout), static test, 96h, >5000 mg/l

LC50, Lepomis macrochirus (bluegill sunfish), static test, 96h, 1800 mg/l

Acute toxicity to algae/aquatic plants: EbC50, Pseudokirchneriella subcapitata (green algae), 72h, growth inhibition (cell density reduction), 843 mg/l

NOEC, Pseudokirchneriella subcapitata (green algae), 72h, growth inhibition (cell density reduction), 500mg/l

Toxicity to bacteria: EC50, activated sludge, static test, 3h, respiration rates > 100 mg/l

Biodegradability: moderate (87%), 28d (OECD 301F)

Bioaccumulation: moderate (BCF 100-3000 or Log Pow 3-5) – No relevant data found

Partition coefficient: n-octanol/water(log Pow): 3.77 @ 20C (OECD 107)

Bioconcentration factor (BCF): 160 fish (estimated)

Mobility in soil: relatively immobile (Koc > 5000)

Partition coefficient (Koc): > 5000 (OECD 121) HPLC Method

Hydrocarbon Resin (proprietary):

May be harmful to aquatic life with lasting effects – not classified

Hydroxy Modified Resin (proprietary):

Harmful to aquatic life with long lasting effects. Do not allow to enter sewers or waterways.

Component Benzyl Alcohol (CAS# 100-51-6):

Toxicity: (ISO 8192, bacteria, 24h, result: acute EC50 390 mg/l), (OECD 202, daphnia magna, 48h, result: acute EC50 230 mg/l), (OECD 201, pseudokirchneriella subcapitata, result: acute IC50 770 mg/l), (Mortality, pimephales promelas, 96h, result: acute LC50 460 mg/l), (OECD 201, pseudokirchneriella supcapitata algae, 72h, result: Chronic NOEC 310 mg/l), (OECD 211, daphnia magna, 21d, result: Chronic NOEC 51 mg/l)

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<u>Persistence and degradability:</u> (OECD 301A Ready Biodegradability – DOC Die-Away Test, activated sludge, result: 95-97% - readily – 21d), (OECD 301C Ready Biodegradability – Modified MITI Test, activated sludge, result: 92-96% - readily – 14 days)

Bioaccumulative potential: Log Pow - 1.05, BCF - 1.37, Potential - low

Component Dibenzyl Ether (CAS# 103-50-4):

Toxicity: (OECD 201, pseudokirchneriella subcapitata, 72h, result: NOEC 0.32 mg/l), (OECD 209, activated sludge, 30m, result: acute EC50 138 mg/l), (OECD 202. Daphnia magna, 72h, result: acute EC50 0.77 mg/l), (OECD 201, pseudokirchneriella subcapitata, 72h, result: acute IC50 4.1 mg/l), (OECD 203, oryzias latipes, 96h, result: Acute LC50 6.8 mg/l), (OECD211, daphnia magna, 21d, result: chronic NOEC 0.098 mg/l)

<u>Persistence and degradability:</u> (OECD 301C Ready Biodegradability – Modified MITI Test, activated sludge, result: 0% - not readily – 14 days) (Photolysis: 50%; 0.8 days, result: not readily)

Bioaccumulative potential: Log Pow - 3.31, BCF - 171-429, Potential - low

Component Carbon (CAS# 1333-86-4):

Toxicity: Fish (Brachydanio rerio): LC50, 96h > 1000 mg/l (OECD 203), daphnia magna: EC50, 24h, > 5600 mg/l (OECD 202), algae (scenedesmus subspicatus): EC50, 72h, > 10000 mg/l, algae (scenedesmus subspicatus): NOEC >= 10000 mg/l, activated sludge: EC0, 3h, >= 800 mg/l (DEV L3 TTC)

Component Iron III hydroxide CAS# 20344-49-4:

Acute and Prolonged Toxicity to fish LC0 >1000 mg/l (golden Orfe). Toxicity to Microorganisms EC0 > 10000mg/l (pseudomonas putida) Component Precipitated Silica CAS# 112926-00-8: Ecotoxicity: EC50 (fish) .10000 mg/l (daphnia >10000 mg/l

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: Transport Information

DOT: Not Regulated

IMO/IMDG: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Diglycidyl Ether Polymer), 9, PGIII IATA/ICAO: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Diglycidyl Ether Polymer), 9, PGIII

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component CAS# 25068-38-6: Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada

Component CAS# 68609-97-2: Considered a hazardous chemical; is on the TSCA list; is on the DSL Canada

Component HYDROCARBON RESIN: Component contains 0.01-0.05 wt. % Naphthalene CAS# 91-20-3 with a CERCLA RQ of 100 pounds. Component is on the TSCA list and Canadian DSL list. Component does not contain any reportable chemicals above the deminimus level for section 313. Component is not hazardous as defined by CFR 1910.1200 or Title III section 312/313 of the superfund amendment. Naphthalene is known to the state of California to cause cancer. Naphthalene is on the Pennsylvania, Massachusetts and New Jersey right to

know lists.

Component HYDROXY MODIFIED RESIN: Component is not hazardous as defined by CFR 1910.1200 and under the provisions of Title III Section 311/312 of the Superfund amendments and Reauthorization Act. Component is on the TSCA list and Canadian DSL list.

Component Benzyl Alcohol (CAS# 100-51-6):

SARA 311/312: Immediate (acute) health hazard

Listed on PA Right to Know Hazardous substance list and on Massachusetts substance list. Listed on TSCA Inventory and Canadian DSL. Component Naphtha, Petroleum, Hydrodesulfurized Heavy (CAS# 64742-82-1): on TSCA and Canadian DSL

California Prop 65: This product can expose you to chemicals including Cumene (CAS# 98-82-8), Ethyl Benzene (CAS# 100-41-4), Naphthalene (CAS# 91-20-3), 1,4-Dioxane (CAS# 123-91-1), Benzene (CAS# 71-43-2), which are known to the State of California to cause cancer; and Toluene and Benzene, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Component Phosphoric acid (residual) (CAS# 7664-38-2) - Listed on MA, PA, NJ Right to Know Lists. Listed on TSCA.

Component Polyphosphoric acids, reaction products with 2-oxepanone and polyethylene glycol monomethyl ether (CAS# 162627-21-6) – Listed on PA & NJ Right to Know Lists. Listed on TSCA.

Component Methoxy-2-Propanol Acetate (CAS# 108-65-6) - Listed on PA & NJ Right to Know Lists. Listed on TSCA.

Component Solvent Naphtha, petroleum, Light Aromatic (CAS# 64742-95-6) – Listed on PA & NJ Right to Know Lists. Listed on TSCA. Component Cumene (Component of Solvent Naphtha, petroleum, light aromatic) (CAS 98-82-8) – SARA 313 chemical @ 0.001%, listed as HAP under Clean Air Act, Section 12 (40 CFR 61), Listed on PA & NJ Right to Know Lists. California Prop 65 WARNING! This chemical is known to the State of California to cause cancer. Listed on TSCA.

Component Carbon (CAS# 1333-86-4): not considered a Prop 65 chemical when bound within the matrix of a product. However, when in respirable form, it is known to the State of California to cause cancer. On the Massachusetts, Rhode Island, Minnesota, New Jersey and Pennsylvania Right to Know Lists. Carbon is listed or exempted on TSCA, EINECS & Canadian DSL Inventories.

Component Titanium Dioxide (CAS# 13463-67-7): Contains Proposition 65 Chemicals, is on the PA Hazardous substance list; is on the NJ & MA right to know Regulated chemical List. Titanium Dioxide is on inventory or in compliance with TSCA, DSL, EINECS, ENCS, IECSC, KECL, PICCS, AICS, NZIoC, TCSI.

PRODUCT CODE: 2215

Component Yellow Pigment: Not Hazardous as defined by OSHA HC Standard 29 CFR 1810.1200.

Component Iron III oxide CAS# 1309-37-1Listed on TSCA Inventory. Section 313/312 hazard category: Chronic health hazard. Potential exposure to all of the California proposition 65 have been determined to be below the No significant risk level (NSRL). Component and its impurities (1%) are on the Pennsylvania, New Jersey right to know substance lists. Component contains the following chemicals listed on the New Jersey and Pennsylvania RTK special hazardous Substance lists: Manganese CAS# 7439-96-5 (0.7%) and Aluminum CAS# 7429-90-5 (0.29%). Component contains the following ingredients which are on the Pennsylvania, Massachusetts hazardous substance lists: Chromium CAS# 7440-47-3 (0.075%) and Nickel CAS# 7440-02-0 (0.04%) Component contains the following chemicals on the California Proposition 65 list known to the state of California to be carcinogenic: Nickel CAS# 7440-02-0 (0.04%) and Cobalt CAS# 7440-48-4 (30 ppm).

Component Iron III hydroxide CAS# 20344-49-4: Listed on TSCA Inventory. Potential exposure to all of the California proposition 65 chemicals have been determined to be below the No significant risk level (NSRL). Components are on the Pennsylvania right to know substance list. Component contains the following chemicals listed on the Pennsylvania RTK special hazardous Substance lists: chromium CAS# 7440-47-3 (0.02%) and nickel CAS# 7440-02-0 (0.015%). Component contains the following ingredients which are on the Massachusetts hazardous substance lists: Chromium CAS# 7440-47-3 (0.02%), arsenic CAS# 7440-38-2 (60ppm), Berrylium CAS# 7440-41-7 (1ppm) and Nickel CAS# 7440-02-0 (0.015%) Component contains the following chemicals on the California Proposition 65 list known to the state of California to be carcinogenic: Nickel CAS# 7440-02-0 (0.015%), arsenic CAS# 7440-38-2 (60ppm), Berrylium CAS# 7440-41-7 (1ppm) and Cobalt CAS# 7440-48-4 (70ppm)...

Component C.I. Pigment Blue CAS# 147-14-8: Component is on the TSCA List and not controlled under WHMIS. Component is a CERCLA hazardous substance

Component Aluminum Oxide CAS# 1344-28-1: Component is on the Massachusetts, New Jersey, Pennsylvania right to know lists. Component is on TSCA list and Canada DSL.

Component Silica, amorphous CAS# 7631-86-9: Component is on the Minnesota right to know list. Component is on TSCA list and Canada DSL.

Component Iron Oxide Yellow CAS# 51274-00-1: Component is on the TSCA list and Canada DSL.

Component Precipitated Silica CAS# 112926-00-8: Is not classified as dangerous. National Chemical Inventory listings include – AICS, DSL, IECSC, EINECS, ENCS, KECI, NZLOC, PICCS, TSCA

SECTION 16: OTHER 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.

No data for the product itself. Component data:

PRODUCT CODE: 2215

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Epoxy.com #225 PART B

PRODUCT CODES: 2215 B

MANUFACTURER/DISTRIBUTOR: Epoxy Systems, Inc. STREET ADDRESS: 20774 W. Pennsylvania Ave

CITY, STATE, ZIP: Dunnellon, FL 34431

INFORMATION PHONE: 352-533-2167

EMERGENCY PHONE: PERS 1-800-633-8253

FAX PHONE: 352-489-1625

PREPARED BY: Norm Lambert

DATE REVISED: 3/10/21

Chemical Name or Class: Polyamine mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: (Skin corrosion/irritation category 1C), (serious eye damage/eye irritation category 1), (sensitization, skin category 1)

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark, Corrosion





Hazard Statements:

H314 Danger: Causes severe skin burns and eye damage.

H318 Danger: Causes serious eye damage.

H317 Warning: May cause an allergic skin reaction.

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label)

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

Storage:

P405 Store locked up

Disposal:

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

HMIS HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: B

POTENTIAL HEALTH EFFECTS

EYES:

WILL CAUSE BURNS TO THE EYES. HIGH VAPOR CONCENTRATIONS CAN CAUSE SEVERE IRRITATION TO THE EYES. SKIN:

CAN CAUSE SKIN IRRITATION OR POSSIBLE BURNS TO THE SKIN.

INGESTION:

LIQUID CAN CAUSE SEVERE DAMAGE TO MUCOUS MEMBRANES IF SWALLOWED.

INHALATION:

HIGH CONCENTRATIONS OF VAPOR CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT, NAUSEA, AND DIZZINESS.

HEALTH HAZARDS (ACUTE AND CHRONIC):

PROLONGED OR REPEATED EXPOSURE MAY CAUSE ASTHMA AND SKIN SENSITIZATION OR OTHER ALLERGIC RESPONSES.

PRODUCT CODE: 2215

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: NO

ADDITIONAL CARCINOGENICITY INFORMATION:

NO LISTED INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
Aliphatic amine	trade secret	NONE	NONE	NONE	50 - <100%
Triethylenetetramine	112-24-3	NONE	NONE	NONE	25 - <50%
Tertiary Amine	trade secret	NONE	NONE	NONE	3 - <5%

*INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372.

Note: Chemical Family; Amines. A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

GENERAL INFORMATION:

SEEK MEDICAL ATTENTION. IF BREATHING IS IRREGULAR OR STOPPED, ADMINISTER ARTIFICAL RESPIRATION.

RINSE THOROUGHLY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS. GET MEDICAL ATTENTION IMMEDIATELY. SKIN:

WASH THE SKIN IMMEDIATELY WITH SOAP AND WATER. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. COVER WOUND WITH STERILE DRESSING. SEEK MEDICAL ADVICE.

DO NOT INDUCE VOMITING AND SEEK MEDICAL ADVICE IMMEDIATELY. IF A PERSON VOMITS WHEN LYING ON THEIR BACK, PLACE THEM IN A RECOVERY POSITION. PREVENT ASPIRATION OF VOMIT. TURN VICTIM'S HEAD TO THE SIDE. INHALATION:

MOVE TO FRESH AIR. IF BREATHING STOPS, PROVIDE ARTIFICAL RESPIRATION. SEEK MEDICAL ADVICE.

PERSONAL PROTECTION FOR FIRST AID RESPONDERS:

IN CASE OF FIRE: WEAR A SELF CONTAINED RESPIRATORY APPARATUS. AVOID CONTACT WITH SKIN. A FACE SHIELD SHOULD BE WORN.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: not available (% by volume) LOWER: not available

FLASH POINT: >93.3°C

METHOD USED:

SETA FLASH

GENERAL FIRE HAZARDS:

FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING WATER MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL

SUITABLE EXTINGUISHING MEDIA:

FOAM, DRY POWDER, CO2, WATER SPRAY, DRY SAND, LIMESTONE POWDER

UNSUITABLE EXTINGUISHING MEDIA:

HIGH VOLUME WATER JET

SPECIAL FIRE FIGHTING PROCEDURES:

A SELF-CONTAINED BREATHING APPARATUS, AND FACE SHIELD SHOULD BE WORN FOR FIRE FIGHTING. AVOID SKIN CONTACT. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

TOXIC FUMES MAY BE PRODUCED WHEN THIS MATERIAL IS INVOLVED IN A FIRE, SUCH AS CARBON MONOXIDE, CARBON DIOXIDE AND NITROGEN OXIDES. UNDER CERTAIN CONDITIONS, TRACES OF OTHER TOXIC PRODUCTS MAY OCCUR.

SECTION 6: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

AVOID CONTACT WITH SKIN AND EYES. USE PERSONAL PROTECTIVE EQUIPMENT. IF POSSIBLE, STOP FLOW OF PRODUCT. EVACUATE AREA. DO NOT ALLOW TO ENTER DRAINS, SEWERS OR WATERCOURSES. APPROACH SUSPECTED LEAK AREAS WITH CAUTION. ABSORB IN VERMICULITE, DRY SAND OR EARTH AND PLACE INTO CONTAINERS. DISPOSE OF ABSORBED MATERIAL IN ACCORDANCE WITH THE REGULATIONS. DO NOT ALLOW TO BE INTRODUCED INTO SEWAGE WATER, SOIL, WATERBODIES, GROUND WATER OR SURFACE WATERS. DISPOSE ACCORDING TO LOCAL AUTHORITY REGULATIONS.

PRODUCT CODE: 2215

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID ALL CONTACT WITH SKIN AND EYES. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE. USE PROTECTIVE CLOTHING/FACE SHIELD IF NECESSARY. DISCARD CONTAMINATED SHOES AND CLOTHING. RESEAL PARTIALLY USED CONTAINERS AND STORE IN A COOL, WELL-VENTILATED AREA. PROPERLY LABEL ALL CONTAINERS. WASH HANDS WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES. OTHER PRECAUTIONS:

KEEP AWAY FROM OXIDIZERS AND ACIDS. MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE SDS OF ALL COMPONENTS TO BECOME FAMILIAR WITH ALL HAZARDS PRIOR TO USING THIS PRODUCT.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

NIOSH APPROVED RESPIRATOR PROTECTION REQUIRED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. FOR EMERGENCIES A SELF-CONTAINED BREATHING APPARATUS OR A FULL FACE RESPIRATOR IS RECOMMENDED. VENTILATION:

AVOID BREATHING VAPORS. VENTILATION MUST BE SUFFICIENT TO CONTROL VAPORS.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES - NEOPRENE OR RUBBER

EYE PROTECTION:

FULL FACE SHIELD WITH SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS UNDERNEATH.

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 THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: AMBER CLEAR LIQUID WITH AMINE ODOR.

BOILING POINT OR RANGE: >35°C
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H2O = 1): 1.0
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: SLIGHT

Odor Threshold: N/A

pH: 9-11

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

STABILITY

STABLE UNDER NORMAL USE & STORAGE CONDITIONS.

CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES.

INCOMPATIBILITY (MATERIAL TO AVOID):

STRONG ACIDS, MINERAL ACID, SODIUM HYPOCHLORITE AND OXIDIZING AGENTS. PRODUCT SLOWLY CORRODES COPPER, ALUMINUM, ZINC AND GALVANIZED SURFACES.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, NITRIC ACID, AMMONIA.

POSSIBILITY OF HAZARDOUS REACTIONS:

NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

ORAL

PRODUCT: ATEmix: 3,092.04 mg/kg **DERMAL**

PRODUCT: ATEmix: 5,711.5 mg/kg

INHALATION

PRODUCT: Not classified based on available data

SKIN CORROSION/IRRITATION:

PRODUCT: CORROSIVE INFORMATION GIVEN IS BASED ON DATA ON THE COMPONENTS AND THE TOXICOLOGY OF SIMILAR PRODUCTS.

PRODUCT CODE: 2215

SERIOUS EYE DAMAGE/EYE IRRITATION:

PRODUCT: NO DATA

COMPONENT: ALIPHATIC AMINE - RABBIT: IRRITATING.

RESPIRATORY OR SKIN SENSITIZATION:

PRODUCT: NO DATA

COMPONENT: ALIPHATIC AMINE - LOCAL LYMPH NODE ASSAY (LLNA) (MOUSE): SKIN SENSITIZER (ANALOGY)

COMPONENT: TRIETHYLENETETRAMINE CAS# 112-24-3 - (GUINÈA PIG) MAY CÁUSE SENSITIZATION BY SKIN CONTACT.

COMPONENT: TERTIARY AMINE - MAXIMIZATION TEST, OECD 406 (GUÍNEA PIG): NOT A SKIN SENSITIZER.

CARCINOGENICITY:

PRODUCT: NO DATA

IARC MONOGRAPHS ON THE EVALUATION OF CARCINOGENIC RISK TO HUMANS: NO CARCINOGENS PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

US. NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS: NO CARCINOGENS PRESENT OR NONE PRESENT IN **REGULATED QUANTITIES**

US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050), AS AMENDED: NO CARCINOGENS PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:

ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT

FISH - PRODUCT: NO DATA

FISH - COMPONENT: TERTIARY AMINE - LC 50 (FISH, 96 H): 175 mg/l

AQUATIC INVERTEBRATES

PRODUCT - NO DATA

COMPONENT: TERTIARY AMINE - LC 50 (DAPHNIA MAGNA, 96 H): 718 mg/l

CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT

FISH - PRODUCT: NO DATA

AQUATIC INVERTEBRATES - PRODUCT: NO DATA TOXICITY TO AQUATIC PLANTS - PRODUCT: NO DATA

TOXICITY TO AQUATIC PLANTS - COMPONENT: TERTIARY AMINE - EC50 (DESMODESMUS SUBSPICATUS (SCENEDESMUS

SUBSPICATUS), 72 H): 84 mg/l

PERSISTANCE AND DEGRADABILITY

BIODEGRADATION - PRODUCT: NO DATA

BIODEGRADATION - COMPONENT: TERTIARY AMINE - 4% (28 D, OECD 301 D)

BOD/COD RATIO - PRODUCT: NO DATA

BIOACCUMULATIVE POTENTIAL

BIOCONCENTRATION FACTOR (BCF) - PRODUCT: NO DATA

BIOCONCENTRATION FACTOR (BCF) - COMPONENT: TERTIARY AMINE - DUE TO THE DISTRIBUTION COEFFICIENT N-

OCTANOL/WATER, ACCUMULATION IN ORGANISMS IS POSSIBLE.

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

DISPOSE OF MATERIAL AS A HAZARDOUS WASTE ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION 14: Transport Information

DOT: UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (TERTIARY AMINE), 8, PG III

IMO/IMDG: UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (TERTIARY AMINE), 8, PG III

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

TSCA SECTION 12(b) EXPORT NOTIFICATION (40 CFR 707, SUBPART D) - NONE PRESENT OR NONE PRESENT IN REGULATED **QUANTITIES**

US. TOXIC SUBSTANCES CONTROL ACT (TSCA) SECTION 5(a)(2) FINAL SIGNIFICANT NEW USE RULES (SNURs) (40 CFR, SUBPART E) - NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES

US. OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050), AS AMENDED - NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4) – NONE PRESENT OR NONE PRESENT IN REGULATED QUANTITIES.

Superfund Amendments and Reauthorization Act of 1986 (SARA) – Hazard categories (Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization)

PRODUCT CODE: 2215

US. EPCRA (SARA TITLE III) SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTING QUANTITIES AND THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT (CERCLA) HAZARDOUS SUBSTANCES – None present or none present in regulated quantities.

US. EPA EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (EPCRA) SARA TITLE III SECTION 313 TOXIC CHEMICALS (40 CFR 372.65) – SUPPLIER NOTIFICATION REQUIRED – None present or none present in regulated quantities.

CLEAN AIR ACT (CAA) SECTION 112(r) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130) – None present or none present in regulated quantities.

CLEAN WATER ACT SECTION 311 HAZARDOUS SUBSTANCES (40 CFR 117.3) – None present or none present in regulated quantities. US STATE REGULATIONS:

<u>CALIFORNIA PROPOSITION 65</u> – No ingredient requiring a warning under CA Prop 65.

NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT - TRIETHYLENETETRAMINE CAS# 112-24-3

MASSACHUSETTS RTK - SUBSTANCE LIST - TRIETHYLENETETRAMINE CAS# 112-24-3

PENNSYLVANIA RTK - HAZARDOUS SUBSTANCES - TRIETHYLENETETRAMINE CAS# 112-24-3

RHODE ISLAND RTK - No ingredient regulated by RI Right-To-Know Law present.

INVENTORY STATUS:

Australia AICS: On or in compliance with the inventory

Canada DSL: On or in compliance with the inventory

China Inv. Existing Chemical Substances: On or in compliance with the inventory

Japan (ENCS) List: On or in compliance with the inventory

Japan ISHL Listing: On or in compliance with the inventory

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory

Philippines PICCS: Not in compliance with the inventory

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

US TSCA Inventory: On or in compliance with the inventory

EINECS, ELINCS or NLP: On or in compliance with the inventory

SECTION 16: OTHER 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.

N/A = Not Available See Section 1 for date of preparation