

TECHNICAL DATA (Water Based Epoxy)

PRODUCT DESCRIPTION:

EP 500 Series is a two component water based epoxy coating that exhibits excellent characteristics that rival solvent based products. EP 500 has superb chemical resistance, abrasion resistance, and substrate penetration. **RECOMMENDED FOR:** Recommended for priming or coating concrete, wood or masonry. This product can withstand exposure to many common solvents and chemicals.

SOLIDS BY WEIGHT: Mixed = 53% (colors); 45% (clear); (+, - 2%)

SOLIDS BY VOLUME: Mixed = 41% (colors); 36% (clear); (+, - 2%)

VOLATILE ORGANIC CONTENT: Colors = 1.01 pounds per gallon (mixed) (regulatory VOC = 175g/l)
Clear = 1.0 pounds per gallon (mixed) (regulatory VOC = 230g/l)

STANDARD COLORS: Off white, light gray, medium gray, tile red, beige, and amber clear. NOTE: The clear (gardner 11) is not water clear and is not suitable for topcoating over previously color coated floors. The clear is suitable as a primer or concrete sealer only.

RECOMMENDED FILM THICKNESS: 5 -7 mils per coat wet thickness (yields 2-3 mils dry)

COVERAGE PER GALLON: 229 to 320 square feet @ 5-7 mils wet thickness

PACKAGING INFORMATION: 2 gallon and 5 gallon kits (volume approx.)

MIX RATIO:

Colors= 8.55# part A (.80 gallons, approximate) to 1.75# part B (.20 gallons, approximate)

Clear= 6.55# part A (.80 gallons, approximate) to 1.90# part B (.20 gallons, approximate)

SHELF LIFE: 1 year in unopened containers

FINISH CHARACTERISTICS: Satin gloss (40-80 at 60 degrees @ glossmeter)

ABRASION RESISTANCE: Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 54 mg loss

IMPACT RESISTANCE: Gardner Impact, direct = 50 in.lb. (passed)

FLEXIBILITY: No cracks on a 1/8" mandrel

ADHESION: 425 psi @ elcometer (concrete failure, no delamination)

VISCOSITY: Mixed = 900-1200 cps (colors); 400-900 cps (clear) (typical)

DOT CLASSIFICATIONS: Not regulated

PRIMER: None required

TOPCOAT: Optional – Many products are suitable as topcoats including multiple coats of this product.

For added chemical resistance, color stability or UV stability, topcoat with a suitable aliphatic urethane.

CURE SCHEDULE (70 Degrees F)

Pot Life (1 Gallon)	1-1.5 hours
Tack Free (Dry to Touch)	5-8 hours
Recoat or Topcoat	7-10 hours
Light Foot Traffic	16-24 hours
Full Cure (Heavy Traffic)	2-7 days
Application Temperature: 55-90 degrees F with relative humidity below 75%	

CHEMICAL RESISTANCE

Acetic Acid 5%	B
Xylene	B
MEK	A
Gasoline	B
10% Sodium Hydroxide	C
50% Sodium Hydroxide	B
10% Sulfuric	B
10% Hydrochloric Acid	B
20% Nitric Acid	A
Ethylene Glycol	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

LIMITATIONS:

Color or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting. Product will yellow in the presence of UV light.

For best results use a 1/4" or 3/8" nap roller.

Slab on grade requires moisture barrier

Substrate temperature must be 5°F above dew point.

All new concrete must be cured for at least 30 days

Product color will vary from batch to batch. Use only product from the same batch for an entire job.

Improper mixing or too thick of an application may result in product failure.

Light or bright colors (white, safety colors etc.) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate.

Physical properties listed on this technical data sheet are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

See reverse side for application instructions.

PRIMER

Water Based Epoxy

MIXING AND APPLICATION INSTRUCTIONS: EP 500 Series Water Based Epoxy

PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing.

SURFACE PREPARATION: Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbanding. However, this product can be applied to a damp floor as long as there are not standing puddles.

PRODUCT MIXING: This product comes pre-packaged by weight. Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. After the two parts are combined, mixes well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product is an emulsion product and should be mixed well before using.

PRODUCT APPLICATION: The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Apply material with relative humidity within the parameters shown on the technical data. When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step. Applications made at different times with differing environmental conditions, may show slight variations in gloss.

RECOAT OR TOPCOATING: If you opt to recoat or topcoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

CLEANUP: Use PM solvent

FLOOR CLEANING: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***

COPYRIGHT 9/1/12

TECHNICAL DATA (Seamless, moisture insensitive, Epoxy Binder)

PRODUCT DESCRIPTION:

EP500 is a two component 100% solids epoxy seal coat that can be used either as a coating or filled with paint chips, marble chips and colored sand mixtures to provide an infinite array of color schemes or patterns.

RECOMMENDED FOR: Recommended for warehouses, kitchens, restrooms, and other areas where either a high build clear product is needed or where a decorative filled floor is desired.

SOLIDS BY WEIGHT: 100%

SOLIDS BY VOLUME: 100%

VOLATILE ORGANIC CONTENT: Less than 2 g/l

STANDARD COLORS: Clear – gardner color 1-2

RECOMMENDED FILM THICKNESS: 16-18 mils

COVERAGE PER GALLON:

90-100 square feet per gallon @ 16-18 mils

PACKAGING INFORMATION

3 gallon kits (2.95 gallons net approximately)

15 gallon kits (14.75 gallons net approximately)

MIX RATIO:

9.0 pounds part A (.99 gallons) to 4.15 pounds part B (.49 gallons) (volumes approx.)

SHELF LIFE: 1 year in unopened containers

FINISH CHARACTERISTICS:

Gloss (60 to 90 @ 60 degrees @ glossmeter)

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 36 mg loss

FLEXURAL STRENGTH: 7,400 psi @ ASTM D790

COMPRESSIVE STRENGTH: 11,200 psi @ ASTM D695

ADHESION: 350 psi @ elcometer

(concrete failure, no delamination)

VISCOSITY: Mixed = 700-1000 cps (typical)

DOT CLASSIFICATIONS:

Part A “not regulated”

Part B “CORROSIVE LIQUID N.O.S., 8, UNI1760, PGIII”

TENSILE STRENGTH:

7,600 psi @ ASTM D638

ULTIMATE ELONGATION:

4.1%

GARDNER VARIABLE IMPACTOR:

50 inch pounds direct – passed

HARDNESS:

Shore D = 81

PRIMER: None required with this system

TOPCOAT: Optional – aliphatic urethanes or successive coats or EP 401 Moisture Cured High Performance Urethane TOPCOAT in aggregate filled systems.

CURE SCHEDULE (70 Degrees F)

Pot Life (1 1/2 Gallon)	20-30 minutes
Tack Free (Dry to Touch)	6-8 hours
Recoat or Topcoat	10-16 hours
Light Foot Traffic	14-18 hours
Full Cure (Heavy Traffic)	2-7 days
Application Temperature: 55-90 degrees F	

CHEMICAL RESISTANCE

Butanol	C
Xylene	C
1, 1, 1, Trichloroethane	C
MEK	A
Methanol	A
Ethyl Alcohol	C
Skydrol	B
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric Acid	C
70% Sulfuric Acid	A
10% HCl (aq)	C
5% Acetic Acid	B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

LIMITATIONS:

Color stability or gloss may be affected by environmental conditions such as high humidity, chemical exposure, UV exposure or exposure to lighting such as sodium vapor lights.

Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.

This product is not UV color stable. Clear aliphatic urethane topcoats reduce (UV light) color changes. Substrate temperature must be 5°F above dew point.

For best results, apply with a ¼” nap roller.

All new concrete must be cured for at least 30 days prior to application.

Apply a suitable primer before using this product. See reverse side for application instructions.

Physical properties are typical values and not specifications.

See reverse side for limitations of our liability and warranty.

BODY

Seamless (Moisture Insensitive) Epoxy

MIXING AND APPLICATION INSTRUCTIONS: EP 500 Seamless (Moisture Insensitive) Epoxy Binder

PRODUCT STORAGE: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Low temperatures or temperature fluctuations may cause crystallization.

SURFACE PREPARATION: The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbanding.

PRODUCT MIXING: This product has a mix ratio of 9.0# part A to 4.15# part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

PRIMING: A suitable primer should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

PRODUCT APPLICATION: The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. This product can be used with various colored sand in a broadcast system or other suitable aggregate can be used in conjunction with this product to achieve a variety of color and application patterns. When using as a broadcast binder, always evaluate performance parameters with a test area which is dependent on aggregate size and thickness, prior to application. Contact your representative for details as necessary.

RECOAT OR TOPCOATING: If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

CLEANUP: Use xylol.

FLOOR CLEANING: Caution! Some cleaners may affect the color. Test each cleaner in a small area. If no ill effects are noted, you can continue to clean with the product and process tested.

RESTRICTIONS: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.

SAFETY DATA SHEET

PRODUCT CODE: 500 PA

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Metallics Water-Based Epoxy PRIMER Part A

PRODUCT CODES: 500 PA

MANUFACTURER: Epoxy Pro Coat

STREET ADDRESS: 1406 Mackinaw Ave.

CITY, STATE, ZIP: Cheboygan, MI 49721

INFORMATION CONTACT: John R. Davis

TOLL FREE: 877.703.7699 **EMAIL:** info@EpoxyPro.com **FAX:** 888.581.0444

EMERGENCY PHONE: Chemtrec 800-424-9300

FAX: 732.494.1747

DATE REVISED: 3/09/2017

Chemical Name or Class: Amine mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Skin corrosion/irritation category 2, Serious eye irritation category 1, Specific target organ toxicity – single exposure category 3 Acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Corrosion, Exclamation Mark



Hazard Statements:

Warning: Causes skin irritation Danger:

Causes serious eye damage Warning: May cause drowsiness or dizziness Harmful to aquatic life

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/vapours/spray P271 Use only outdoors or in a well-ventilated area.

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.

P310 If in eyes, immediately call a POISON CENTER or doctor/physician.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

P405 Store locked up.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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 1 and 2

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMIBILITY: 1

REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS EYES: THIS MATERIAL CAN CAUSE EYE IRRITATION OR REDNESS. HIGH VAPOR CONCENTRATIONS CAN CAUSE SEVERE IRRITATION TO THE EYES.

SKIN: IRRITATION TO THE SKIN CAN OCCUR BUT DERMAL TOXICITY IS LOW.

INGESTION: INGESTION OF MATERIAL CAN CAUSE NAUSEA OR OTHER SIMILAR RESPONSES.

SAFETY DATA SHEET

PRODUCT CODE: 500 PA

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.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC AILMENTS

CARCINOGENICITY

OSHA: NO NTP: yes IARC: yes

ADDITIONAL CARCINOGENICITY INFORMATION:

Some colors may contain carbon black - Explanation Of Carcinogenicity: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B. IARC has determined that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1- carcinogenic to humans). The NTP classifies respirable crystalline silica as reasonably anticipated to be a carcinogen. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B). **Component Acetic Acid:** Chronic effects on humans – Mutagenetic for mammalian somatic cells. Mutagenic for bacteria and yeast. **Component CAS# 107-98-2:** Has been reported to be toxic to fetus in laboratory animals. **Component CAS# 8052-41-3:** Epidemiology: Studies involving petroleum refinery workers indicate that persons with routine exposure to petroleum based constituents may be at an increased risk to the development of benign neoplasms, digestive tract cancer and skin cancer.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
1,2 ETHANE DIAMINE, N-(2-AMINO ETHYL)	111-40-0	1 ppm	1 ppm	NONE	<1.0
TETRAETHYLENE PENTAMINE	112-57-2	NONE	NONE	NONE	<1.0
ETHYLENEDIAMINE	107-15-3	10 ppm	10 ppm	10 ppm	<1.0
PENTAETHYLENE HEXAMINE	4067-16-7	NONE	NONE	NONE	<1.0
Polymer of polymerized linseed oil, pentaethylene hexamine, DGEBA-epichlorohydrin copoly, form, DETA and PGE	CAS# not available	NONE	NONE	NONE	10-30
WATER	7732-18-5	NONE	NONE	NONE	30-60
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	100 ppm	100 ppm	150 ppm	10-30
GLACIAL ACITIC ACID	64-19-7	10 ppm	10 ppm	15 ppm	0.1-1
STODDARD SOLVENT	8052-41-3	100ppm	100 ppm	NONE	0.1-1
2-ETHYL-1-HEXANOL	104-76-7	NONE	NONE	NONE	0.1-1
*GLYCOL ETHER 2-BUTOXYETHANOL	111-76-2	25 ppm	25 ppm	NONE	0.1-1
PROPIETARY ADDITIVE-	NJTSRN 80963-5170	NONE	NONE	NONE	0.1-1
Mica	12001-26-2	20mppcf	3mg/m3	NONE	1-5
Triethanolamine	102-71-6	NONE	5mg/m3	NONE	0.1-1
Colors may contain the following @ 10-30%:					
*ETHYLENE GLYCOL	107-21-1	50PPM	50PPM	50PPM	0.1-1
Aqueous colorant additive	NJTSRN 56705700001-5043P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5032P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5756P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5024P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5023P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5727P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5749P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5579P	NONE	NONE	NONE	
Diethylene Glycol	111-46-6	10mg/m3	10mg/m3	NONE	0.1-1
Talc	14807-96-6	20mg/m3	20mg/m3	20mg/m3	0.1-1
*crystalline silica (as a component of talc)	14808-60-7	0.05 mg/m3	0.025 mg/m3	0.05 mg/m3	0.1-1
Chlorite	71949-90-1	NONE	NONE	NONE	
*Chromium III oxide (green may contain up to 5%)	1308-38-8	0.5 mg/m3	0.5 mg/m3	NONE	0.1-1
Propylene glycol	57-55-6	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-6584P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5030P	NONE	NONE	NONE	
Iron oxide	1332-37-2	5mg/m3	15mg/m3	NONE	
Petroleum distillates	64741-88-4	400ppm	400ppm	10mg/m3	
Petroleum distillates	64741-89-5	5mg/m3	5mg/m3	10mg/m3	
C.I. Pigment Yellow	51274-00-1	NONE	NONE	NONE	
Iron hydroxide oxide	20344-49-4	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5747P	NONE	NONE	NONE	
isopropanol	67-63-0	400ppm	400ppm	500ppm	
Barium Sulfate	7727-43-7	5mg/m3	5mg/m3	10mg/m3	
Tributyl Phosphate	126-73-8	5mg/m3	2.5mg/3	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5704P	NONE	NONE	NONE	

SAFETY DATA SHEET

PRODUCT CODE: 500 PA

Aqueous colorant additive	NJTSRN 56705700001-5071P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-5756P	NONE	NONE	NONE	
Chlorite	71949-90-1	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-6031P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-6861P	NONE	NONE	NONE	
Aqueous colorant additive	NJTSRN 56705700001-6584P	NONE	NONE	NONE	
*CARBON	1333-86-4	3.5PPM	3.4PPM	NONE	0.1-1
Kaolin	1332-58-7	15mg/m3	2mg/m3	NONE	
Titanium Dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	

SECTION 2 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372. PROPYLENE GLYCOL MONOMETHYL ETHER CAS #107-98-2 (ACGIH) STEL= 150 PPM. FOLLOW 311B (2) (A) 40 CRF 116, 117, GUIDELINES. FOLLOW TSCA 8 (A) 40 CFR 712, 47 FR 26992 GUIDELINES

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

SECTION 4: FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER AND LOWER LIDS. GET IMMEDIATE MEDICAL ASSISTANCE.

SKIN:

FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES AND REMOVE ALL CONTAMINATED CLOTHING IMMEDIATELY. GET MEDICAL ATTENTION IF REDDENING OR SWELLING OCCURS.

INGESTION:

DO NOT INDUCE VOMITING. DILUTE BY GIVING WATER OR MILK TO DRINK IF VICTIM IS CONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% by volume) LOWER: N/A

FLASH POINT: 200 +F

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA:

FOAM, ALCOHOL FOAM, CO2, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:

TOXIC FUMES WILL BE EVOLVED WHEN THIS MATERIAL IS INVOLVED IN A FIRE. A SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR FIRE FIGHTERS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE KNOWN

SECTION 6: RELEASE MEASURES

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

AVOID CONTACT WITH MATERIAL. WEAR THE APPROPRIATE SAFETY EQUIPMENT. STOP SPILL AT SOURCE, DYKE AREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. TAKE UP REMAINDER WITH CLAY OR OTHER ABSORBANT AND PLACE IN DISPOSAL CONTAINERS.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS. RESEAL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES.

OTHER PRECAUTIONS:

MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS 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.

VENTILATION :

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

SAFETY DATA SHEET

PRODUCT CODE: 500 PA

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES, NEOPRENE OR RUBBER.

EYE PROTECTION:

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

CLEAN BODY COVERING CLOTHING AS WELL AS APRON FOOTWEAR OR OTHER EQUIPMENT SHOULD BE USED AS DEEMED NECESSARY TO AVOID CONTACT WITH THE MATERIAL.

WORK HYGIENIC PRACTICES:

OBSERVE GENERAL GOOD HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: LOW VISCOSITY LIQUID IN VARYING COLORS

BOILING POINT OR RANGE ° F: 212

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.2

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: EMULSIFIABLE

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

CONDITIONS TO AVOID (STABILITY):

AVOID CONTACT WITH OPEN FLAMES AND ALL SOURCES OF IGNITIONS AND SPARKS.

INCOMPATIBILITY (MATERIAL TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS, MINERAL ACIDS AND EPOXY RESINS IN UNCONTROLLED AMOUNTS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

CO, CO₂, NOX

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component CAS# 111-40-0: inhalation: LC50 (4hr) <0.3 mg/l (rat); Skin: LD50 >5000 mg/kg(rabbit) Ingestion: LD50 2960 mg/kg (rat).

Severe Eye irritation, Moderate skin irritation, May cause sensitization by skin contact.

Component Acetic Acid: Absorbed through the skin. Estimated 4 hr exposure Oral LD50 3310 mg/kg (rat), Estimated Dermal LD50 1060 mg/kg (rabbit), Vapor LC50 5620 mouse).Chronic effects on humans – Mutagenetic for mammalian somatic cells. Mutagenic for bacteria and yeast. May cause damage to kidneys, mucous membranes, skin, teeth. Corrosive by inhalation or skin contact, corrosive to eyes.

Component CAS# 107-98-2: Ingestion LD50 rat 4016 mg/kg, Dermal LD50 rabbit >2000 mg/kg, Inhalation LC50 6 hr Vapor, rat >25.8 mg/l. May cause eye or skin irritation. May effect Kidney or liver. Has been reported to be toxic to fetus in laboratory animals.

Component CAS# 8052-41-3: Draize test (rabbit) eye: 500 mg/24hr – Moderate. Epidemiology: Studies involving petroleum refinery workers indicate that persons with routine exposure to petroleum based constituents may be at an increased risk to the development of benign neoplasms, digestive tract cancer and skin cancer.

Component Silicon dioxide: Inhalation and retention of respirable crystalline silica can cause silicosis in several forms, chronic, accelerated or acute. Acute silicosis can occur with exposures to high concentrations of respirable crystalline silica over a very short time period, the symptoms of acute silicosis include progressive shortness of breath, fever, cough, and weight loss. Acute silicosis can be fatal. IARC concluded that there was sufficient evidence in humans for the carcinogenicity of crystalline silica in the form of quartz (Group 1). Exposure to respirable crystalline silica can also be associated with autoimmune disease, tuberculosis, kidney damage, non-malignant respiratory disease. For further information, thr NIOSH Hazard Review- Occupational Effects of Occupational Exposure to Respirable Crystalline Silica published in April of 2002 should be reviewed.

Component Ethylene Glycol CAS# 107-21-1: The human oral lethal dose is approximately 1.6 g/kg. Ethylene glycol may aggravate existing kidnet disease or cause snsitization LD50 oral (rat) – 4000 mg/kg.

Component C.I. Pigment yellow CAS# 51274-00-1: LD50 Oral (rat) >5000 mg/kg. LD50 Dermal (rabbit) = 10500 mg/kg. Ethylene glycol has been shown to cause dose related teratogenic effects in rats and mice when given by gavage at high concentrations.

SAFETY DATA SHEET

PRODUCT CODE: 500 PA

Component talc CAS# 14807-96-6: Carcinogenic effects – this component may contain crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline Silica is also listed by the NTP as a known human carcinogen

Component diethylene Glycol CAS# 111-46-6: Estimated human oral lethal dose is 1.0 to 1.2 g/kg. LD50 Oral (rat) = 20760 mg/kg. LD50 Dermal (rabbit) = 13300 mg/kg. dirthylene glycol vapors have caused central nervous system effects in mice and rats, but no such effects have been documented in humans.

Component NJTSRN 56705700001-5043P: LD50 oral (rat) = 3000 mg/kg. Acute dermal LD50 (rabbit) = 4400 mg/kg

Component Chromium III oxide CAS# 1308-38-8: LD50 Oral (rat) >5000 mg/kg.

Component Propylene glycol CAS# 57-55-6: LD50 oral (rat) >2000 mg/kg. Acute Dermal LD50 (rabbit) >10000 mg/kg

Component NJTSRN 56705700001-6584P: LD50 oral (rat) = 1300 mg/kg

Component NJTSRN 56705700001-5024P: LD50 Oral (rat) = 1900 mg/kg. Dermal LD50 (rat) = 1110 mg/kg.

Component NJTSRN 56705700001-5023: LD50 Oral (rat) = 1900 mg/kg. Dermal LD50 (rabbit) >10000 mg/kg

Component NJTSRN 56705700001-5030P: .No data

Component Petroleum distillates CAS# 64741-88-4: no data

Component Petroleum distillates CAS# 64741-89-5: no data

Component NJTSRN 56705700001-5747: LD50 Oral (rat) =.2000 mg/kg.

Component NJTSRN 56705700001-5704: .No data

Component NJTSRN 56705700001-5071P: .No data

Component NJTSRN 56705700001-6031P: .No data

Component NJTSRN 56705700001-6861P: LD50 Oral (rat) = 1836 mg/kg. moderate skin irritation.

Component Titanium Dioxide: Inhalation 4 h LC50 > 6.82 mg/l; Oral LD50 > 5000 mg/kg, rat; In February 2006, IARC listed titanium dioxide as possibly carcinogenic to humans Group 2B.

Component Carbon: IARC lists carbon as a possible human carcinogen Category 2B. LD50 – Intravenous, mouse = 440 mg/kg. Contains Proposition 65 Chemicals .Carbon: is listed on TSCA and DSL Canada

Component CAS# 112-57-2: Toxicological Data on Ingredients: Tetraethylenepentamine: ORAL (LD50): Acute: 3990 mg/kg [Rat]. DERMAL (LD50): Acute: 0.66 mg/kg [Rabbit]. Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive, sensitizer, permeator), of eye contact (corrosive), of inhalation (lung corrosive).

Component Triethanolamine CAS# 102-71-6: LD50 Dermal (rat) = 2000 mg/kg. LD50 Oral (rabbit) >2000 mg/kg. LD50 Oral (rat) = 4190 mg/kg. Component may cause skin or eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Acetic Acid: Ecotoxicity 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: Bioconcentration 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 LAWS.

SECTION 14: Transport Information

DOT: Not Regulated

IMO/MDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

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.

SAFETY DATA SHEET

PRODUCT CODE: 500 PA

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 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.

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: OTHER INFORMATION

SAFETY DATA SHEET

PRODUCT CODE: 500 PA

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

SAFETY DATA SHEET

PRODUCT CODE: 500 PB

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Metallics Water-Based Epoxy PRIMER Part B
PRODUCT CODES: 500 PB

MANUFACTURER: Epoxy Pro Coat
STREET ADDRESS: 1406 Mackinaw Ave.
CITY, STATE, ZIP: Cheboygan, MI 49721
INFORMATION CONTACT: John R. Davis
TOLL FREE: 877.703.7699 **EMAIL:** info@EpoxyPro.com **FAX:** 888.581.0444

EMERGENCY PHONE: Chemtrec 800-424-9300
FAX: 732.494.1747

DATE REVISED: 3/09/2017

Chemical Name or Class: Epoxy mixture

SECTION 2: HAZARDS 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/vapours/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

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.

SAFETY DATA SHEET

PRODUCT CODE: 500 PB

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:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
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 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.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 5: FIRE-FIGHTING MEASURES

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

SAFETY DATA SHEET

PRODUCT CODE: 500 PB

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 THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: LOW VISCOSITY LIQUID – AMBER CLEAR or COLORS

BOILING POINT OR RANGE: 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

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

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

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:

Component 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

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 SUBSTANCES, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Polymer) , 9, PGIII, MARINE POLLUTANT

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, 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: 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

SAFETY DATA SHEET

PRODUCT CODE: 500 TA

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Metallics 100% Solids Industrial Grade Epoxy TOPCOAT - PART A
PRODUCT CODES: 500 TA

MANUFACTURER: EpoxyPro Coat, LLC
STREET ADDRESS: 1406 Mackinaw Ave.
CITY, STATE, ZIP: Cheboygan, MI 49721
INFORMATION CONTACT: John R. Davis
TOLL FREE: 877.703.7699 **EMAIL:** info@EpoxyPro.com **FAX:** 888.581.0444

EMERGENCY PHONE: Chemtrec 800-424-9300

FAX: 732.494.1747

DATE REVISED: 3/10/2017

Chemical Name or Class: Epoxy mixture

SECTION 2: HAZARDS 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/vapours/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

Other non-classifiable potential hazards:

Acute toxicity oral category 4, Germ Cell Mutagenicity category 2, Toxic to Reproduction (fertility) category 2, Toxic to Reproduction (unborn child) category 2, Specific target organ toxicity repeated exposure (skin, central nervous system (CNS) category 2

HMIS HAZARD CLASSIFICATION

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

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.

SAFETY DATA SHEET

PRODUCT CODE: 500 TA

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:

N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
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
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
BENZYL ALCOHOL	100-51-6	NONE	NONE	NONE	1-5
NONYL PHENOL	84852-15-3	NONE	NONE	NONE	3-7
Additive	NJT SRN 800963-5023	none	none	none	0.1-1
1,2-Propanediol	57-55-6	NONE	NONE	NONE	0.1-1
Oxirane, Me, polymer with oxirane monobutyl ether	9038-95-3	NONE	NONE	NONE	0.1-1
(fluoroaliphatic polmeric esters) contains 2-propenoic acid, 2-[Methyl](nonafluorobutyl) sulfonyl]amino]ethyl ester, telomere with mthyloxirane polymer with oxirane di-2-propenoate and methyloxirane polymer with oxirane mono-prpenoate	1017237-78-3	none	none	none	<0.3%
(fluoroaliphatic polmeric esters) contains 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-n-(2-hydroxyethyl)-N-methyl-	34454-97-2	1mg/m3(skin)	none	none	<0.1%
(fluoroaliphatic polmeric esters) contain 2-propenoic acid, 2-[methyl]nonafluorobutyl)sulfonyl]amino]ethyl ester	67584-55-8	none	none	none	<0.1%
(fluoroaliphatic polmeric esters) contains polyether polymer	NJT SRN 04499600-6437	none	none	none	<0.1%
(fluoroaliphatic polmeric esters) contains 2-methoxymethylethoxypropanol	34590-94-8	600mg/m3(skin)	100ppm	150ppm	<0.1%
(fluoroaliphatic polmeric esters) contain toluene	108-88-3	200ppm	20ppm	300ppm	<0.1%

SECTION 3 NOTES:

**** Indicates toxic chemical(s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372.***

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

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.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,
(% by volume)

UPPER: not available

LOWER: 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.

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 THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: LOW VISCOSITY LIQUID – AMBER CLEAR

BOILING POINT OR RANGE: 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

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

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

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

Component Nonyl Phenol: Median Lethal Dose Oral: LD50 0.58g/kg (rat) moderately toxic. Dermal LD50 2.14g/kg (rabbit) slightly toxic. Skin Draize Test, rabbit,: 500 mg/m³ 24hr – corrosive. Eyes Draize test rabbit, 57.00/110 – extremely irritating. Component is a possible risk of impaired fertility.

Component Benzyl Alcohol: Inhalation LC50 (4hr) >4178 mg/l (rat), Dermal LD50 2000 mg/kg (rabbit) Rats exposed to 800 mg/kg for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No observed Adverse effect level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in two year study with rats and mice.

Component additive NJTSRN 800963-5023: Acute oral toxicity: LD50 rat>8,000,000 mg/kg; skin irritation rabbit – no skin irritation

Component CAS# 57-55-6: LD50 = 20000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component 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

Component Nonyl Phenol: Ecotoxicity: Daphnia EC50: 0.14-0.44 mg/l, 48 hr. Component is not readily biodegradable, log Pow: 3-4. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.. Aquatic Toxicity LC50 96 hr, toxicity rating is <0.10 ppm – extremely toxic

Component Benzyl Alcohol: EC50 (48hr) 400 mg/l Daphnia Magna, EC50 (72hr) 2600 mg/l Algae, Biodegradation BOD₂ 62. Slightly or not bioaccumulative. Toxicity to fish: LC50 (96 hr) 10 mg/l Bluegill sunfish (Lepomis macrochirus), LC50 (96hr) 460 ml/l Fathead minnow (Pimephales promelas), Toxicity to Algae: IC50 (72hr) 700 mg/l

(Component fluoroaliphatic polymeric esters) Ecological information not determined, Chemical fate information not determined.

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 SUBSTANCES, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Polymer) , 9, PGIII, MARINE POLLUTANT

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, 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

Component Siloxanes and silicones, di-me reactions products with silica: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Component siloxanes and silicones, di-methyl: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Component Benzyl Alcohol: E20/22 Harmful by inhalation and if swallowed. On TSCA list, on DSL Canada

Component Nonyl Phenol: This component is listed on TSCA, EINECS, ACIS, MITI and Canada DSL lists.

Component additive NJTSRN 800963-5023: on TSCA List. Not a California Prop 65 chemical

Component CAS# 57-55-6: Listed on TSCA and DSL

Component CAS# 9038-95-3: Listed on TSCA and Canada DSL

Component Fluoroaliphatic Polymeric Esters: may contain trace amounts of Section 313 toxic chemicals toluene CAS# 108-88-3.

Components on TSCA list or in compliance. Contains chemicals that can cause birth defects or other reproductive harm. The Ingredients are on DSL Canada, Chinas inventory of chemical substances, EINECS, Korean Existing Chemical Inventory Toluene is a California proposition 65 chemical (female reproductive toxin, developmental toxin) This component contains a TSCA section 12(b) chemical (CAS# 1017237-78-3), but is in a quantity less than 0.3%.

SECTION 16: OTHER INFORMATION

SAFETY DATA SHEET

PRODUCT CODE: 500 TA

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

SAFETY DATA SHEET

PRODUCT CODE: 500 TB

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Metallics 100% Solids Industrial Grade Epoxy TOPCOAT - PART B
PRODUCT CODES: 500 TB

MANUFACTURER: EpoxyPro Coat, LLC
STREET ADDRESS: 1406 Mackinaw Ave.
CITY, STATE, ZIP: Cheboygan, MI 49721
INFORMATION CONTACT: John R. Davis
TOLL FREE: 877.703.7699 **EMAIL:** info@EpoxyPro.com **FAX:** 888.581.0444

EMERGENCY PHONE: Chemtrec 800-424-9300
FAX: 732.494.1747

DATE REVISED: 3/10/2017

Chemical Name or Class: Polyamine mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Skin corrosion/irritation category 1, skin sensitizer category 1B, Serious eye damage category 1, Acute hazard to aquatic environment category 3, Chronic hazards to aquatic environment category 2

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark, Corrosion, Aquatic Toxicity



Hazard Statements:

Danger: Causes severe skin burns and eye damage

Warning: May cause an allergic skin reaction

Danger: Causes serious eye damage

Harmful to aquatic life

Toxic to aquatic life with long lasting effects

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P260 Do not breathe dust/fume/gas/mist/vapours/spray P264 Wash hands thoroughly after handling.

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

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): Remove/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.

P321 If skin irritation or burns develop, Call a doctor/physician.

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

P310 If in eyes, immediately call a POISON CENTER or doctor/physician.

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: 2

FLAMMABILITY: 1

REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: G

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.

SAFETY DATA SHEET

PRODUCT CODE: 500 TB

HEALTH HAZARDS (ACUTE AND CHRONIC):

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

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

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
BENZYL ALCOHOL	100-51-6	NONE	NONE	NONE	30-60
3-AMINOMETHYL-3,5,5-TRIMETHYL CYCLOHEXANE	2855-13-2	NONE	NONE	NONE	30-60
2-HYDROXYBENZOIC ACID	69-72-7	NONE	NONE	NONE	3-7
CYCLOALIPHATIC AMINE ADDUCT	68609-08-5	NONE	NONE	NONE	10-30

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

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

SECTION 4: FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE LIFTING UPPER AND LOWER LIDS. GET IMMEDIATE MEDICAL ASSISTANCE.

SKIN:

FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES AND REMOVE ALL CONTAMINATED CLOTHING IMMEDIATELY. GET MEDICAL ATTENTION IF REDDENING OR SWELLING OCCURS.

INGESTION:

DO NOT INDUCE VOMITING. DILUTE BY GIVING WATER OR MILK TO DRINK IF VICTIM IS CONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION:

REMOVE TO FRESH AIR IF EFFECTS PERSIST AND ADMINISTER OXYGEN IF NECESSARY.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,
(% by volume)

UPPER: not available
LOWER: not available

FLASH POINT: 200+F

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA:

FOAM, ALCOHOL FOAM, CO2, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:

TOXIC FUMES WILL BE EVOLVED WHEN THIS MATERIAL IS INVOLVED IN A FIRE. A SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR FIRE FIGHTING. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NONE KNOWN.

SECTION 6: RELEASE MEASURES

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

AVOID CONTACT WITH MATERIAL. WEAR THE APPROPRIATE SAFETY EQUIPMENT. STOP SPILL AT SOURCE, DYKE AREA TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE TANK. TAKE UP REMAINDER WITH CLAY OR OTHER ABSORBENT AND PLACE IN DISPOSAL CONTAINERS.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS. RESEAL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. OBSERVE CONDITIONS OF GOOD INDUSTRIAL HYGIENE AND SAFE WORKING PRACTICES.

OTHER PRECAUTIONS:

MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS, THEREFORE, READ THE MSDS 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:

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 THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: AMBER CLEAR LIQUID WITH AMINE ODOR.

BOILING POINT OR RANGE: 155 TO 401 DEG F

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.0

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

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

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Benzyl Alcohol: Inhalation LC50 (4hr) >4178 mg/l (rat), Dermal LD50 2000 mg/kg (rabbit) Rats exposed to 800 mg/kg for thirteen weeks exhibited CNS depression and histopathological changes in the brain, thymus and skeletal muscles. The No observed Adverse effect level (NOAEL) was 400 mg/kg. No evidence of carcinogenicity was seen in two year study with rats and mice.

Component CAS# 2855-13-2: Oral LD50 rat 1030 mg/kg, Skin irritation – Corrosive category 1C where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days. Eye irritation – Risk of serious damage to eyes. Product Sensitization (Magnusson- Kingman test) guinea pig: may cause sensitization by skin contact. Product Teratogenicity oral rat NOEL (no observed effect level) 250 mg/kg

Component CAS# 69-72-7: Acute Oral Toxicity LD50 (rat) = 891 mg/kg (behavioral somnolence (general depressed activity, Behavioral muscle weakness)). Acute Inhalation LC50 (rat) >900 mg/m³, 1 hr. Acute Dermal LD50 (rabbit) >10,000 mg/kg. Skin Irritation (rabbit) – mild skin irritation -24hr. Eye Irritation (rabbit) – severe eye irritation.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

SAFETY DATA SHEET

PRODUCT CODE: 500 TB

Component Benzyl Alcohol: EC50 (48hr) 400 mg/l Daphnia Magna, EC50 (72hr) 2600 mg/l Algae, Biodegradation BOD₂ 62. Slightly or not bioaccumulative. Toxicity to fish: LC50 (96 hr) 10 mg/l Bluegill sunfish (*Lepomis macrochirus*), LC50 (96hr) 460 ml/l Fathead minnow (*Pimephales promelas*), Toxicity to Algae: IC50 (72hr) 700 mg/l

Component CAS# 2855-13-2: Biodegradability 42% and is not readily biodegradable. Bioaccumulation: - no significant accumulation of the substance in organisms is to be expected. Mobility: The soil mobility of the substance is only minimally affected by adsorption to soil components. Toxicity to fish: LC50 *Lauciscus idus* 110 mg/l (96hr). Toxicity to Daphnia NOEC 3 mg/l (504hr). EC50 Daphnia magna 23 mg/l (48 hr). ErC50 *scenedesmus subspicatus* 50 mg/l (72 hr). NOEC *scenedesmus subspicatus* 1.5 mg/l (72 hr). Toxicity to bacteria: EC10 *Pseudomonas putida* 1120 mg/l (18 hr).

Component CAS# 69-72-7: Toxicity to Fish LC50 (*Leuciscus idus* – 96 mg/l. Toxicity to Daphnia magna – 105mg/l, 24 hr. Component Mutagenic Effects: Mutagenic for bacteria and/or yeast. Developmental toxicity: Classified reproductive system toxin/female, development toxin 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: : UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS ISOPHORONE DIAMINE), 8, PG III

IMO/IMDG : UN1760, CORROSIVE LIQUID N.O.S. (CONTAINS ISOPHORONE DIAMINE), 8, PG III,

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component Benzyl Alcohol: E20/22 Harmful by inhalation and if swallowed. On TSCA list, on DSL Canada

Component CAS# 2855-13-2: Acute health hazard. Ingredients on TSCA. International Chemical status listed/registered – EINECS/ELINCS, DSL, AICS, MITI, TCOL, PICCS, China, New Zealand.

Component CAS# 69-72-7: Component is on the Pennsylvania and New Jersey right to know lists. Component is on the TSCA and Canada DSL lists.

Component CAS# 68609-08-5 is on the Canada DSL and TSCA lists.

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

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Metallic COLOR PIGMENT (powder) PART C
PRODUCT CODES: 500 CC

MANUFACTURER: EpoxyPro Coat, LLC
STREET ADDRESS: 1406 Mackinaw Ave.
CITY, STATE, ZIP: Cheboygan, MI 49721
INFORMATION CONTACT: John R. Davis
TOLL FREE: 877.703.7699 **EMAIL:** info@EpoxyPro.com **FAX:** 888.581.0444

EMERGENCY PHONE: Chemtrec 800-424-9300
FAX: 732.494.1747

DATE REVISED: 3/10/2017

CHEMICAL NAME OR CLASS: Metallic pigments

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Not classified as dangerous according to the regulations

GHS Label Elements and Precautionary Statements:

Label Elements: None

Hazard Statements:

P102 Keep out of reach of children.

P103 Read label before use

Precautionary statements:

None

Other Non-Classifiable hazards information

Hazard Statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P280: Wear Eye Protection/face protection

P285: In case of inadequate ventilation, use respiratory protection.

Precautionary statements:

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

P302+P352: If on skin, wash with plenty of soap and water.

HMIS HAZARD CLASSIFICATION

HEALTH: 1 **FLAMMIBILITY:** 0 **REACTIVITY:** 0 **PERSONAL PROTECIVE EQUIPMENT:** E

POTENTIAL HEALTH EFFECTS

EYES: MAY CAUSE CORNEAL ABRASION, IRRITATION OR INFLAMMATION.

SKIN: MAY CAUSE SKIN IRRITATION.

INGESTION: NONE KNOWN.

INHALATION: MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT. PROLONGED OR REPEATED EXPOSURE MAY CAUSE RESPIRATORY PROBLEMS OR OTHER LUNG RELATED SYMPTOMS.

HEALTH HAZARDS (ACUTE AND CHRONIC): PROLONGED OR REPEATED EXPOSURE TO DUST MAY CAUSE PULMONARY PROBLEMS.

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

CARCINOGENICITY

OSHA: NO **NTP:** NO **IARC:** NO

NO LISTED INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

ADDITIONAL CARCINOGENICITY INFORMATION:

N/A

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
Mica	12001-26-2	20mppcf	3mg/m3	NONE	50-60
Iron III oxide	1309-37-1	10mg/m3	5mg/m3	NONE	40-50

SAFETY DATA SHEET

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

FOLLOW OSHA HAZARD COMMUNICATION RULE 29CFR SECTIONS 1910.1200, 1915.99, 1917.28, 1918.9, 1926.59, AND STATE AND LOCAL COMMUNITY RIGHT TO KNOW LAWS.

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

SECTION 4: FIRST AID MEASURES

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

SKIN: WASH IMMEDIATELY WITH SOAP AND WATER IF SKIN CONTACT OCCURS. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.

INGESTION: IF INGESTED, CONSULT A PHYSICIAN. IF CONDITION WARRANTS. NOT A HAZARD UNDER NORMAL USE CONDITIONS

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

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, **UPPER:** n/a
(% by volume) **LOWER:** n/a

FLASH POINT: n/a

METHOD USED: n/a

EXTINGUISHING MEDIA: PRODUCT ITSELF DOES NOT BURN.

SPECIAL FIRE FIGHTING PROCEDURES: Product is neither a fire hazard nor an explosion hazard

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 USE DUSTLESS HANDLING EQUIPMENT TO CLEAN UP LARGE SPILLS. PLACE IN SUITABLE DISPOSAL CONTAINERS. FLUSH AREA WITH WATER TO REMOVE RESIDUE.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. AVOID BREATHING ANY DUST WHEN WORKING WITH THIS MATERIAL.

OTHER PRECAUTIONS: AVOID BREATHING DUST GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. PROVIDE TRAINING FOR YOUR EMPLOYEES RELATING TO OCCUPATIONAL EXPOSURE TO DUST. USE WITH ADEQUATE VENTILATION.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER-EXPOSURE TO DUST IN ACCORDANCE WITH 29 CFR 1910.134. GENERAL EXHAUST IS USUALLY SUFFICIENT IN LIEU OF NIOSH RESPIRATOR. PROVIDE SUFFICIENT EXHAUST TO KEEP EXPOSURE LEVELS BELOW THE OSHA PEL LEVEL.

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

PROTECTIVE GLOVES: WEAR SUITABLE PROTECTIVE GLOVES.

EYE PROTECTION: SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: PROVIDE EQUIPMENT AS NECESSARY TO PREVENT THE INHALATION OF DUST OR SKIN EXPOSURE.

WORK HYGIENIC PRACTICES: OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: VARIOUS COLORED POWDER - ODORLESS

BOILING POINT OR RANGE: n/a

VAPOR DENSITY (AIR = 1): n/a

SPECIFIC GRAVITY (H2O = 1): 3.1 – 3.2 kg/L

EVAPORATION RATE: n/a

SOLUBILITY IN WATER: insoluble

pH: 6.0-9.0 (4% in water)

Odor Threshold: 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

SAFETY DATA SHEET

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE
CONDITIONS TO AVOID (STABILITY): NONE KNOWN.
INCOMPATIBILITY (MATERIAL TO AVOID): NONE KNOWN
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NONE KNOWN.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS ON HUMANS: The substance is toxic to lungs, mucous membranes and a possible skin irritant.
Component information:
Component Iron III oxide CAS# 1309-37-1: Acute Oral Toxicity LD50 >5000 mg/kg (rat). Acute Dermal Toxicity LD50 >5000 mg/kg (rat)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No known ecological problems associated with this product.
Toxicity of products of biodegradation: The product of degradation are as toxic as the original product.
Component information:
Component Iron III oxide CAS# 1309-37-1: Acute and Prolonged Toxicity to fish LC0 >1000 mg/l (golden Orfe). Acute toxicity to Aquatic Invertebrates EC0 > 10000 mg/l (water flea). Toxicity to Microorganisms EC0 > 1000mg/l (pseudomonas putida)

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:
DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

SECTION 14: Transport Information

DOT: Not Regulated
IMO/MDG Not regulated

SECTION 15: REGULATORY INFORMATION

WHMIS and Canada classification: Product is not regulated
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.
Component Iron III oxide CAS# 1309-37-1: Listed 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).

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