



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product name : **COVERSHIELD E900**
Product Use : **EPOXY RESIN (PART A)**
Restrictions on use : Do not use product for anything outside of the above specified uses
Manufacturer/Supplier : CoverTec Products LLC
10857 NW 50th Street
Sunrise, FL 33351
United States of America
Product Information : 754-223-2465
Transport Emergency : INFOTRAC: +1-800-535-5053
Revision Date: NA
Preparation Date: 04/15/2015

SECTION 2 – HAZARDS IDENTIFICATION

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

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.

Medical conditions generally aggravated by exposure:

Respiratory conditions or other allergic ailments.

Carcinogenicity

Osha: no ntp: yes iar: yes

ADDITIONAL CARCINOGENICITY INFORMATION:

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. Product may contain ethyl benzene as a component of xylene (IARC 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).

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	40-70
ALKYL GLYCIDYL ETHER	68609-97-2	NONE	NONE	NONE	10-30
Talc	14807-96-6	20mg/m3	20mg/m3	20mg/m3	15-40
*crystalline silica (as a component of talc)	14808-60-7	10mg/m3	.1mg/m3	.1mg/m3	0.1-1
LIMESTONE	1317-65-3	15mg/m3	5MG/M3	NONE	10-30
*XYLENE	1330-20-7	100PPM	100PPM	150PPM	0.1-1
*ethyl benzene (as a component of xylene)	100-41-4	100ppm	100ppm	125ppm	<0.1%
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
COLORS MAY CONTAIN @ 10-30%:					
Titanium Dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	
*CARBON	1333-86-4	3.5PPM	3.4PPM	NONE	<1.0
Silicon Dioxide	7631-86-9	6mg/m3	10mg/m3	NONE	
Ferric Oxide	1309-37-1	10mg/m3	8mg/m3	NONE	
Iron III hydroxide	20344-49-4	15mg/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 pigment)	7727-43-7	NONE	NONE	NONE	
Pigment yellow 65 (component of yellow pigment)	6528-34-3	NONE	NONE	NONE	
C.I. Pigment Blue	147-14-8	1mg/m3	1mg/m3	NONE	
Aluminum Oxide	1344-28-1	15mg/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.

XYLENE ACHIH STEL=150PPM

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 consult with 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 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:

None known.

SECTION 6 – ACCIDENTAL 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 occupational exposure limit values.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: low viscosity liquid in varying colors

Boiling point or range: 200 to 279f

Vapor density (air = 1): n/a



Specific gravity (h₂o = 1): 1.5

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 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 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 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 Limestone: LD₅₀ Oral (rat) = 6450 mg/kg. This product contains greater than 0.1% crystalline silica which is listed as a group I carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH

Component Xylene: Inhalation LC₅₀ 26800ppm, Skin LD₅₀ 2000 mg/kg, Ingestion LD₅₀ 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Xylene may contain ethyl benzene, and toluene. Ethyl benzene has shown limited evidence of a carcinogenic effect.

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

Component Carbon: IARC lists carbon as a possible human carcinogen Category 2B. LD₅₀ – Intravenous, mouse = 440 mg/kg

Component Yellow Pigment: Not Hazardous as defined by OSHA HC Standard 29 CFR 1810.1200.. Acute oral value of 20 gm/kg or greater in rats

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

Component Limestone: inert material

Component Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertebrates: Toxic 1 < LC/EC/IC50 <10mg/l, Algae: Toxic 1 < LC/EC/IC50 <10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

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

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method:

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

SECTION 14 – TRANSPORTATION 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.

Component 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 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 Limestone: TSCA listed. Canada Exempt, naturally occurring Substance. EINECS, ECL, ENCS, CIES, PICCS listed. This product contains known to the state of California to cause cancer or reproductive effects.

Component Xylene: Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. (Maximum wt % for components of xylene are: M-Xylene CAS# 108-38-3 is 46%, P-Xylene CAS# 106-42-3 is 20%, Ethyl Benzene CAS# 100-41-4 is 19%, O-Xylene CAS# 95-47-6 is 16%.. Xylene and its components are on the California Proposition 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS, China, EINECS, ENCS, Korea, New Zealand, Phillipines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists Ethyl Benzene a component of xylene has been designated by IARC as a possible carcinogen to humans based on increased tumor incidence in laboratory animals. risk phrases R10 Flammable R20/21 Harmful by inhalation and in contact with skin, R38 irritating to skin, S25 Avoid contact with eyes.

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

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

Component Carbon: Contains Proposition 65 Chemicals .Carbon: is listed on TSCA and DSL Canada

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

Component CAS# 1309-37-1: Component is on the TSCA list and Canada DSL.



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), Beryllium 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), Beryllium CAS# 7440-41-7 (1ppm) and Cobalt CAS# 7440-48-4 (70ppm)..

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

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

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

SECTION 16- OTHER INFORMATION

HMIS HAZARD CLASSIFICATION

HEALTH: 2

FLAMMIBILITY: 1

REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: B



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product name : COVERSHIELD E900
Product Use : EPOXY RESIN (**PART B**)
Restrictions on use : Do not use product for anything outside of the above specified uses
Manufacturer/Supplier : CoverTec Products LLC
10857 NW 50th Street
Sunrise, FL 33351
United States of America
Product Information : 754-223-2465
Transport Emergency : INFOTRAC: +1-800-535-5053
Revision Date: NA
Preparation Date: 04/45/2015

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Flammable liquid category 3, Specific target organ toxicity – single exposure category 3, Skin corrosion category 1B, Skin sensitization category 1, Serious eye damage category 1, Aquatic toxicity hazard (Acute) category 3, Aquatic toxicity hazard (Chronic) category 2

GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Exclamation Mark, Corrosion, Aquatic Toxicity

Hazard Statements:

Warning: Flammable liquid and vapor

Warning: May causes drowsiness or dizziness.

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

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well-ventilated area.

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

P273 Avoid release to the environment.

Response;

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

P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

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.

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

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.

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.

P391 Collect spillage.

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.

HMIS HAZARD CLASSIFICATION

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

Potential health effects

Eyes:

Can cause severe irritation, redness, tearing or blurred vision.

Skin:

May cause irritation, defatting and dermatitis.

Ingestion:

Can cause gastrointestinal irritation, nausea, vomiting, diarrhea and aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

Inhalation:

Can cause nausea and respiratory irritation dizziness, weakness, fatigue, headache, and possible unconsciousness.

Health hazards (acute and chronic):

Amine resins can cause sensitization by exposure through contact or high concentrations of vapor. Over-exposure to this material can cause cardiac abnormalities, anemia, liver abnormalities, kidney damage or even eye damage.

Medical conditions generally aggravated by exposure:

Respiratory conditions or other allergic response.

Carcinogenicity

Osha: no ntp: no iarc: yes

Additional carcinogenicity information:

1,4-dioxane cas# 123-91-1: indication of possible carcinogenic effect in animal tests. IARC (international agency for research on cancer) has classified this substance as group 2b (the agent is possibly carcinogenic to humans).

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL	WEIGHT %
BENZYL ALCOHOL	100-51-6	NONE	NONE	NONE	15-40
3-AMINOMETHYL-3,5,5-TRIMETHYL CYCLOHEXANE	2855-13-2	NONE	NONE	NONE	15-40
2-HYDROXYBENZOIC ACID	69-72-7	NONE	NONE	NONE	5-10
TRIS-2,4,6-DIMETHYLAMINOMETHYLPHENOL	90-72-2	NONE	NONE	NONE	3-7
Bis(dimethylaminomethyl) phenol	71074-89-0	NONE	NONE	NONE	10-30
PROPYLENE GLYCOL MONOMETHYL ETHER	107-98-2	100PPM	100PPM	150PPM	15-40
n-Butyl acetate	123-86-4	150ppm	150ppm	200ppm	0.1-1
*butan-2-ol	78-92-2	150ppm	100ppm	NONE	0.1-1
Propylene glycol derivative	Trade Secret	NONE	NONE	NONE	0.1-1
*1,4-dioxane	123-91-1	100ppm	20ppm(skin)	NONE	<0.005%

*Indicates toxic chemicals subject to the reporting requirements of section 313 Title III 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:

Do not induce vomiting, keep person warm and consult a physician immediately.

Inhalation:



See section three for occupational exposure limit values

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor: low viscosity liquid – solvent odor

Boiling point or range: 243 to 401f

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 excess heat or open flames as well as all sources of ignitions such as sparks, heaters, and static discharges etc.

Incompatibility (material to avoid):

Avoid epoxy resins in uncontrolled amounts and strong oxidizing agents.

Hazardous decomposition or by-products:

May form toxic chemicals, carbon dioxide, carbon monoxide and various hydrocarbons etc.

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 subcategory 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.

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 n-Butyl acetate:

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Oral: Type of value: LD₅₀, Species: rat (male/female), Value: > 10,000 mg/kg (other), Type of value: LD₅₀, Species: rat, Value: 10,736 mg/kg

Inhalation: Type of value: LC₅₀, Species: rat (male/female), Value: > 21.1 mg/l (OECD Guideline 403), Exposure time: 4 h, The vapour was tested. Type of value: LC₀, Species: rat (male/female), Value: > 38.32 mg/l, Exposure time: 6 h, The vapour was tested.

Dermal: Type of value: LD50, Species: rabbit (male/female), Value: > 14,000 mg/kg (other)

Irritation / corrosion: Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. May cause slight irritation to the eyes.

Skin: Species: rabbit, Result: non-irritant Method: OECD Guideline 404.

Eye: Species: rabbit, Result: non-irritant, Method: OECD Guideline 405, Species: rabbit, Result: Slightly irritating, Method: Draize test

Sensitization: Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Repeated dose toxicity: Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

Genetic toxicity: No mutagenic effect was found in various tests with microorganisms and mammalian cell culture. The substance was not mutagenic in studies with mammals. The substance was not mutagenic in bacteria. The substance was not genotoxic in mammalian cell culture. The substance was not genotoxic in a test with mammals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Reproductive toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Development: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental

Component butan-2-ol

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. If used as intended, this product is not expected to present a physical or health hazard.

Oral: Type of value: LD50, Species: rat, Value: 2,193 - 6,480 mg/kg, Literature data.

Inhalation: Type of value: LC50, Species: rat, Value: 25 - 49 mg/l, Exposure time: 4 h, Literature data.

Dermal: Type of value: LD50, Species: rat, Value: > 2,000 mg/kg, Literature data.

Irritation / corrosion: Assessment of irritating effects: Irritating to eyes. Not irritating to the skin.

Skin: Species: rabbit, Result: non-irritant, Method: OECD Guideline 404, Literature data.

Eye: Species: rabbit, Result: Irritant, Method: OECD Guideline 405, Literature data.

Sensitization: Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Repeated dose toxicity: Assessment of repeated dose toxicity: Repeated inhalative uptake of the substance did not cause substance-related effects. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data: similar to OECD guideline 413 rat (Fischer 344), (male/female) Inhalation 90d 0, 1250, 2500, or 5000 ppm. NOAEL: 2500 ppm.

LOAEL: 5000 ppm. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Genetic toxicity: The substance was not mutagenic in bacteria. The substance was not genotoxic in mammalian cell culture.

Reproductive toxicity: The results of animal studies gave no indication of a fertility impairing effect. Literature data.

Development: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. Literature data.

Component Propylene glycol derivative

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Oral: Type of value: LD50, Species: rat (male/female), Value: > 5,000 mg/kg. Type of value: LD50, Species: rat (male/female), Value: > 5,000 mg/kg.

Inhalation: Type of value: LC0, Species: rat, Value: (other), Exposure time: 6 h, The vapour was tested.

Dermal: Type of value: LD50, Species: rat, Value: > 2,000 mg/kg (other), Type of value: LD0, Species: rat, Value: > 5,000 mg/kg

Irritation / corrosion: Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. May cause slight irritation to the eyes.

Skin: Species: rabbit, Result: non-irritant, Method: other, Species: rabbit, Result: non-irritant.

Eye: Species: rabbit, Result: non-irritant, Method: other, Species: rabbit, Result: Slightly irritating.

Sensitization: Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Repeated dose toxicity: Assessment of repeated dose toxicity: Repeated dermal exposure to large quantities may affect certain organs. The product has not been tested. The statement has been derived from the structure of the product. Repeated inhalation exposure to large quantities may affect certain organs. Repeated oral uptake of the substance did not cause substance-related effects. Prolonged or repeated contact may cause mild skin irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The substance may cause damage to the olfactory epithelium after repeated inhalation. The substance may cause damage to the liver after repeated inhalation.

Experimental/calculated data: rat (Fischer 344) (male/female) Inhalation 2 weeks 0, 300, 1000, 3000 ppm. NOAEL: 6.2 mg/l 650 ppm, mouse (B6C3F1) (male/female) Inhalation 2 weeks 0, 300, 1000, 3000 ppm. NOAEL: 1.62 mg/l 300 ppm

Genetic toxicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not genotoxic in mammalian cell culture.

Reproductive toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The results of animal studies gave no indication of a fertility impairing effect.

Development: No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Component 1,4-dioxane: Carcinogenicity Information on: Indication of possible carcinogenic effect in animal tests. IARC (International Agency for Research on Cancer)

has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Component CAS# 90-72-2 and CAS# 71074-89-0: Oral LD50 (rat) 1200 mg/kg; Dermal LD50 (rabbit) 1280 mg/kg; Inhalation LC50 (rat) > 0.5 mg/liter/1 hour; Severe irritant to eyes of a rabbit. Severe irritant to the skin of a rabbit. Corrosive to the skin of a rabbit.

SECTION 12 – ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

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 mg/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 *Lepomis macrochirus* 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.

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, EC50 green algae biomass growth inhibition 7 d >1000 mg/l. Toxicity to microorganisms IC50 activated sludge > 1000 mg/l

Component n-Butyl acetate and Component butan-2-ol and Component Propylene glycol derivative:

Fish
Acute:
Fish/LC50 (96 h): 10 - 100 mg/l
Chronic:
No data available.
Aquatic invertebrates
Acute:
daphnia/LC50 (48 h): > 100 mg/l
Chronic:
No data available.
Aquatic plants
Toxicity to aquatic plants:
algae/EC50 (72 h): > 100 mg/l
Microorganisms
Toxicity to microorganisms:
bacteria/EC50 (0.5 h): > 100 mg/l Safety Data Sheet
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
All Ecological data has been derived from the properties of the individual components.

Component CAS# 90-72-2 and CAS# 71074-89-0: Toxicity: LC50 fish 447.8 mg/l (96 hr). LC50 Crust 28.2 mg/l (48 hr). EC50 alga 34.8 mg/l (96 hr)

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste disposal method:

Dispose of material in a waste disposal site in accordance with local, state, and federal laws.

SECTION 14 – TRANSPORTATION INFORMATION

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS PROPYLENE GLYCOL MONOMETHYL ETHER), 3, PG III,

IMO/IMDG : UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS PROPYLENE GLYCOL MONOMETHYL ETHER, ISOPHORONE DIAMINE), 3, PG III, Marine pollutant

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

Component n-Butyl acetate and Component butan-2-ol and Component Propylene glycol derivative:

Federal Regulations

Registration status: Chemical TSCA, US released / listed

OSHA hazard category: This material is classified as hazardous under OSHA regulations.

EPCRA 311/312 (Hazard categories): Acute; Chronic; Fire; Sudden release of pressure

EPCRA 313: CAS Number Chemical name

78-92-2 butan-2-ol

123-91-1 1,4-dioxane

CERCLA RQ CAS Number Chemical name

5000 LBS 123-86-4 n-Butyl acetate

1000 LBS 80-62-6 Methyl methacrylate

100 LBS 78-92-2; 123-91-1 butan-2-ol; 1,4-dioxane

State regulations

State RTK CAS Number Chemical name

MA, NJ, PA 123-86-4 n-Butyl acetate

MA, NJ, PA 78-92-2 butan-2-ol

MA, NJ, PA 123-91-1 1,4-dioxane

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER

Component CAS# 90-72-2 and 71074-89-0 EEC symbol – Harmful, harmful if swallowed (R22) Irritating to eyes and skin (R36/38). Component is on the Canada DSL, TSCA, EINECS, AICS, ENCS, ECL, SEPA, PICCS lists

SECTION 16– OTHER INFORMATION

HMIS HAZARD CLASSIFICATION

HEALTH: 3

FLAMMIBILITY: 2

REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: G