







# SAFETY DATA SHEET

Eco-UPE™ - Part A

## 4. FIRST-AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES:

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention.

**SKIN CONTACT:** Wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Some individuals may develop skin sensitization from exposure.

### 4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

May cause skin and eye irritation. May cause skin sensitization. Contains chemicals believed to be a cancer, germ cell mutagen, and reproductive hazard.

### 4.3 RECOMMENDATIONS TO PHYSICIANS:

Treat symptoms and eliminate overexposure.

## 5. FIRE-FIGHTING MEASURES

### 5.1 FIRE EXTINGUISHING MATERIALS:

**FIRE EXTINGUISHING MATERIALS:** Use fire extinguishing methods below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class

### 5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep containers tightly closed when not in use.

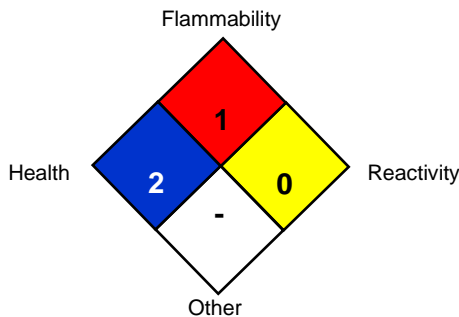
Explosion Sensitivity to Mechanical Impact: No

Explosion Sensitivity to Static Discharge: No

### 5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### NFPA RATING SYSTEM



### HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)		2	
FLAMMABILITY HAZARD (RED)		1	
PHYSICAL HAZARD (YELLOW)		0	
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard



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## 6. ACCIDENTAL RELEASE MEASURES

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

See section 8.2 for Exposure Controls.

### **6.2 ENVIRONMENTAL PRECAUTIONS:**

Keep spilled material out of all sewers and open bodies of water.

### **6.3 SPILL AND LEAK RESPONSE:**

Stop the flow of material, if this can be done safely. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to containers for disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

## 7. HANDLING and STORAGE

### **7.1 PRECAUTIONS FOR SAFE HANDLING:**

Use good hygiene practices. As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use good hygiene practices.

### **7.2 STORAGE AND HANDLING PRACTICES:**

Store in original container. Keep container closed. Store in a cool, dry location. Avoid exposure to ignition sources and incompatible materials. Store inside in a cool (below 100°F or 37.5°C), dry place.

### **7.3 SPECIFIC USES:**

See section 1.2 for details.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### **8.1 EXPOSURE PARAMETERS:**

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	Not listed	Not Listed
Alkyl Glycidyl Ether C12-C14	68609-97-2	Not listed	Not Listed
Aromatic 100	64742-95-6	Not listed	2000 mg/m <sup>3</sup>

### **8.2 EXPOSURE CONTROLS:**

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or chemical splash goggles are required to avoid contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Chemical resistant gloves are required to prevent contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use as appropriate to prevent skin contact. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.



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## 9. PHYSICAL and CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE (Physical State) and COLOR:** This product is a liquid

**ODOR:** Not Available

**ODOR THRESHOLD:** Not Available

**pH:** Not Applicable

**MELTING/FREEZING POINT:** Not Available

**BOILING POINT:**  $\geq 110$  °C / 230 °F

**FLASH POINT:**  $>201$ °F (94°C)

**EVAPORATION RATE (n-BuAc=1):** Not Available

**FLAMMABILITY (SOLID, GAS):** Not Applicable

**UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS:** Not Available

**VAPOR PRESSURE (mm Hg @ 20°C (68°F):** Not Available

**VAPOR DENSITY:** Not Available

**RELATIVE DENSITY:** Not Available

**DENSITY:** 9.35 lb/gal

**SOLUBILITY IN WATER:** Not Available

**WEIGHT PER GALLON:** Not Available

**PARTITION COEFFICIENT (n-octanol/water):** Not Available

**AUTO-IGNITION TEMPERATURE:** Not Available

**DECOMPOSITION TEMPERATURE:** Not Available

**VISCOSITY:** Not Available

### 9.2 OTHER INFORMATION:

No data available

## 10. STABILITY and REACTIVITY

### 10.1 REACTIVITY:

This product is not reactive.

### 10.2 STABILITY:

Stable under conditions of normal storage and use.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur.

### 10.4 CONDITIONS TO AVOID:

Extreme temperatures and direct sunlight.

### 10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Not data available.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Not data available.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

#### TOXICITY DATA:

Bis A, Epichlorohydrin Epoxy CAS# 25085-99-8

Oral LD50, Rat, 11400 mg/kg

Oral LD50, Rabbit,  $>2000$  mg/kg

Dermal LD50, Rat, 11400 mg/kg

Dermal LD50, Rabbit,  $>2000$  mg/kg

Aromatic 100 CAS# 64742-95-6

Oral Rat LD50: 8400 mg/kg

Dermal Rabbit LD50:  $>2000$  mg/kg

Inhalation Rat LC50: 3400 ppm (4h)

**SUSPECTED CANCER AGENT:** Ingredients within this product are found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are considered to be, or suspected to be, cancer-causing agents by these agencies.

**IRRITANCY OF PRODUCT:** This product may be irritating to skin and eyes.



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**SENSITIZATION TO THE PRODUCT:** This product may be a skin sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** This product contains chemicals which are suspected to be a reproductive hazard.

**MUTAGENICITY INFORMATION:** This product contains chemicals which are reported to be germ cell mutagen hazards.

**SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Data not sufficient for classification.

**SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Data not sufficient for classification.

## 12. ECOLOGICAL INFORMATION

### 12.1 TOXICITY:

<b>Chemical Name</b>	<b>Algae/aquatic plants</b>	<b>Fish</b>	<b>Crustacea</b>
Aromatic 100 64742-95-6	-	9.22: 96 h Oncorhynchus mykiss mg/L LC50	6.14: 48 h Daphnia magna mg/L EC50

### 12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

### 12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

### 12.4 MOBILITY IN SOIL:

No specific data available on this product.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.

### 12.6 OTHER ADVERSE EFFECTS:

This product may cause harm to plants, animals or aquatic life.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

### 12.7 WATER ENDANGERMENT CLASS:

Not water endangering in accordance with EU Guideline 91/155-EWG.

### 12.8 SPECIFIC AVAILABLE COMPONENT INFORMATION:

No additional data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

### 13.2 EU Waste Code:

Not determined.

## 14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:** This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

**BULK SHIPMENTS WITHIN U.S.:**

**14.1 PROPER SHIPPING NAME:** Not Regulated

**14.2 HAZARD CLASS NUMBER and DESCRIPTION:** N/A

**14.3 UN IDENTIFICATION NUMBER:** N/A

**14.4 PACKING GROUP:** N/A

**14.5 DOT LABEL(S) REQUIRED:** N/A

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER:** N/A

**RQ QUANTITY:** NA

**14.6 MARINE POLLUTANT:** None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

**14.7 SPECIAL PRECAUTIONS FOR USER:** None

### 14.8 INTERNATIONAL TRANSPORTATION:

**INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA):** This product is considered as dangerous goods.

**PROPER SHIPPING NAME:** Environmentally Hazardous Substance, Liquid, N.O.S (Bis A, Epichlorohydrin Epoxy)

**HAZARD CLASS NUMBER and DESCRIPTION:** 9, Environmentally Hazardous Substance



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Eco-UPE™ - Part A

**UN IDENTIFICATION NUMBER:**

UN3082

**PACKING GROUP:**

III

**DOT LABEL(S) REQUIRED:**

Environmentally Hazardous Substance

**INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO):** This product is considered as dangerous goods.

**14.9 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:**

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD**

(ADR): This product is considered by the United Nations Economic Commission for Europe to be dangerous goods.

## 15. REGULATORY INFORMATION

### **15.1 UNITED STATES REGULATIONS:**

**U.S. SARA REPORTING REQUIREMENTS:** The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**U.S. TSCA INVENTORY STATUS:** The components of this product are listed on the TSCA Inventory or are exempted from listing.

**OTHER U.S. FEDERAL REGULATIONS:** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):**



**WARNING!** This product can expose you to chemicals such as Ethylbenzene, which is known to the State of California to cause cancer. For more information, go to [WWW.P65Warning.ca.gov](http://WWW.P65Warning.ca.gov).

### **15.2 CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:** The components of this product are on the DSL Inventory, or are exempted from listing.

**OTHER CANADIAN REGULATIONS:** Not applicable.

### **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** Complies with WHMIS 2015.

### **15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for full Details

**15.4 AUSTRALIAN INFORMATION FOR PRODUCT:** The components of this product are listed on the International Chemical Inventory list.

### **15.5 JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**JAPANESE ENCS INVENTORY:** The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

**POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:** No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

### **15.6 MEXICO REGULATIONS:**

**HARMONIZED SYSTEM FOR THE IDENTIFICATION AND COMMUNICATION OF HAZARD AND RISKS FROM HAZARDOUS CHEMICALS IN THE WORKPLACE:** This product has been classified per NOM-018-STPS-2015.

### **15.7 INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftlist List of Toxic Substances: Listed



# SAFETY DATA SHEET

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U.S. TSCA: Listed

## 16. OTHER INFORMATION

**PREPARED BY:** Cynthia F. Berg (Tennant Coatings)

**DATE OF PRINTING:** October 12, 2021

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Florock Polymer Flooring assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are no adhered to as stipulated in the data sheet. Furthermore, Florock Polymer Flooring assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

**END OF SDS SHEET**