

VAPOR BLOCK EPOXY

SAFETY DATA SHEET

PRODUCT NAME: Vapor Block Epoxy-A

SECTION 1 – IDENTIFICATION

Manufacturer's Info:**PROLINE**2664 Vista Pacific
Oceanside, CA 92056**Product name: Vapor Block Epoxy-A****Information phone:** (760) 758-7240**Emergency contact:** CHEMTREC (800) 424 9300

SECTION 2 – HAZARD(S) IDENTIFICATION

OSHA Hazard Communication Standard:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

GHS-Label Elements: **Signal Word:**
WARNING

GHS 07



GHS 09

Classification of the substance or mixture:

Hazard Class	Category	Hazard Statement Codes	Hazard Statements
Skin corrosion / Irritation	2	H315	Causes skin irritation
Serious eye damage / Eye irritation	2A	H319	Causes serious eye irritation
Skin Sensitization	1	H317	May cause an allergic skin reaction
Aquatic Hazard, Acute	2	H402	Toxic to aquatic life
Aquatic Hazard, Long term	2	H411	Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention:	P280 P261 P264 P272 P273	Wear protective gloves/ protective clothing / eye protection/ face protection. Avoid breathing mist/ vapors/ spray. Wash exposed area with plenty of water and soap thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
Response:	P302 + P352 P362 P333 + P313 P305 + P351 + P338 P337 + P313 P391	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage.
Storage:	None	
Disposal:	P501	Dispose of contents/container to hazardous or special waste collection point in accordance with local/regional/national/international regulations.

Hazards not otherwise classified: See Section 11 for additional info.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	EC #	Concentration, %
Bisphenol F Epoxy Resin	9003-36-5	500-006-8	30 - 60
Bisphenol A Epoxy Resin	25085-99-8	607-537-5	30 - 60
Oxirane, mono [(C12-14-alkyloxy)methyl] derivatives	68609-97-2	271-846-8	10 - 30

SECTION 4 – FIRST-AID MEASURES

Description of First Aid measures:**Inhalation:** Remove the exposed person to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
If unconscious, place in recovery position and maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person should be kept under medical surveillance for 48 hours.

- Skin:** Wash material off of the skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes immediately and wash them before reuse. For severe exposures, immediately get under safety shower and begin rinsing. For molten product, immediately immerse affected area in cool water or flush with large amounts of cool water, and get medical attention. If irritation develops, consult a physician or dermatologist.
- Eye:** Immediate medical attention required. Chemical burns must be treated promptly by a physician or ophthalmologist. Rinse cautiously with water for several minutes, especially under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Do not rub eyes in order to prevent cornea injury.
- Ingestion:** Remove the exposed person to fresh air and keep at rest in a position comfortable for breathing. Remove dentures if any. If conscious, rinse mouth thoroughly with water and then give 60 to 240 mL (2 to 8 oz) of water to drink. Do not give milk. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

Most important symptoms/effects, acute and delayed: See Section 11 for more details.

General advice for First Aid responders: No action should be taken involving any personal risk or without suitable training. If potential for exposure exist refer to Section 8 for specific personal protective equipment. Move out of dangerous area. Do not leave the victim unattended. Show this SDS to physician.

Note to physician: Specific antidotes or neutralizers do not exist. Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient. Symptoms of poisoning may even occur after several hours. Recommended medical monitoring for at least 48 hours.

Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed.

Skin: This product contains component that is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn.

Ingestion: Inducing vomiting can be contraindicated because of the irritating nature of the chemical.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: Direct water stream may cause frothing, splattering of burning material, violent steam generation or eruption and spreading of fire.

Specific hazards arising from the chemical: Material may be ignited only if preheated to high temperatures (such in fire conditions). Fire in vicinity poses risk of pressure build-up and rupture. Containers at risk from fire should be cooled with water and, if possible, removed from the danger area. Hazardous Combustion products: carbon and nitrogen oxides, amines, hydrogen cyanide, lower molecular weight organic molecules. Dense smoke is emitted when burned without sufficient oxygen.

Special Protective Equipment and Precautions for fire-fighters: Wear NIOSH or OSHA approved self-contained breathing apparatus in positive pressure mode with full face piece and full protective gear. Isolate the scene by removing all persons from the incident area. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. No action should be taken involving any personal risk or without suitable training. Contain fire water run-off. IT must not be discharged into drains. Fire water run-off, if not contained, may cause environmental damage. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Keep unnecessary and unprotected personnel from entering. Ensure adequate ventilation/exhaust extraction. Avoid breathing vapors or mist during clean up. Use protective equipment as described in Section 8. Do not touch or walk through spilled material, spilled material may cause a slipping hazard.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Inform the relevant authorities if the product has caused environmental pollution. Water polluting material. May be harmful to the environment if released in large quantities. See Section 12 for more details.

Methods and materials for containment and cleaning up: Remove mechanically; cover the remainder with non-combustible absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth). Following absorption, transfer into properly labeled chemical waste containers. If necessary, repeat application of absorbent material until all liquid has been removed from the surface. Remove residual with warm, soapy water or non-flammable, safe solvent. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent Safety

Data Sheet for handling information and exposure guidelines. Scrubbing the surface with a broom or brush helps the decontamination solution to penetrate into porous surfaces. After cleaning, remove waste container and keep in a well ventilated area. Properly dispose of the waste material and any contaminated equipment (i.e., broom or brush) in accordance with existing federal, state and local regulations.

For major spills: Stop leak if without risk. Approach release from upwind. Remove ignition sources. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or contain and collect with an absorbent material as described in the previous paragraph.

For minor spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly with soap and water to remove residual contamination. Never return spills to original containers for re-use.

Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, see Section 1 for the Emergency contact; for further disposal measures, see Section 13.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling: Protect chemical from atmospheric moisture. Avoid prolonged exposure to heat and air. Keep away from sources of ignition. Avoid use of electric band heaters. Failures of electric band heaters have been reported to cause drums of liquid epoxy resin to explode and catch fire. Application of a direct flame to a container of liquid epoxy resin can also cause explosion and/or fire. Do not reseal if contamination is suspected.

Use adequate ventilation to keep airborne levels below the exposure limits. Do not breathe vapors and mists. Wear respiratory protection if material is heated, mixed, sprayed or used in a confined space. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash hands thoroughly after handling. Hands and/or face should be washed before eating, drinking and smoking and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with asthma, chronic respiratory disease or prior allergic reactions to isocyanates and those with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities: Store in original or approved alternative container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Protect it against physical damage and moisture. Normal temperature and pressures do not affect the material. Keep liquid away from heat, sparks and flame. Do not cut, drill, grind, weld or perform similar operations on or near containers. Use appropriate containment to avoid environmental contamination. Requirements to be met by storerooms and receptacles: No special requirements.

Storage stability: Stable under normal conditions.

Storage temperature: 60 - 105°F (16 - 40°C)

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Employees and consumers should be warned of health risks associated with product use. See Section 8 for additional information on hygiene measures.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters/Occupational exposure limit values: Contains no substances with occupational exposure limit values.

Appropriate engineering controls: Good local and general ventilation should be sufficient to control worker exposure to airborne contaminants below recommended exposure limits. Local exhaust may be required in some areas.

Personal protective equipment:

Eye/face protection:

When directly handling liquid product, eye protection is required. Examples of eye protection include safety glasses and goggles or full face shield when there is a greater risk of splash. Contact lenses should not be worn when working with chemicals.

Skin/body protection:

Avoid contact with skin. Impervious gloves (nitrile butyl rubber, neoprene or PVC) should be worn always when working with this product. Body should be covered with appropriate clothing (apron, arm covers or full body suit) depending on the task being performed and the risks involved. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH. Wash contaminated clothing before reuse. Store work clothing separately. Appropriate footwear should be also selected based on the task being performed and the risks involved. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

Respiratory protection:

Use local or general ventilation to control exposures below applicable exposure limits. When ventilation is inadequate, use either an atmosphere supplying respirator or NIOSH or OSHA approved air-purifying respirator for organic vapors. Respirator must be properly fitted and its selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Additional Protective Measures: Educate and train employees in safe handling of this product. Follow all label instructions. As a general hygiene practice, wash hands and face after use. Clean water should always be readily available for emergency skin and eye washing. Emergency eyewash fountains and safety shower are recommended in close proximity as a matter of good work practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow transparent Liquid
Odor:	Not available
Odor threshold:	Not available
pH:	Not available
Melting point/ freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	~120°C (closed cup)
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/ lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	1.09 g/cm ³ @ 25°C (77°F)
Solubility (water):	Insoluble
Partition coefficient n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Hazardous Polymerization will not occur by itself. Reaction of more than one pound (0.5 kg) of product with an aliphatic amine will cause irreversible polymerization with considerable heat build-up.

Chemical stability: Stable under recommended storage conditions.

Conditions to avoid: Avoid short term exposures to temperatures above 300°C. Avoid prolonged exposure to temperatures above 250°C. Potentially violent decomposition can occur above 350°C. Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

Incompatible materials: Oxidizing agents. Water, alcohols, amines, bases, acids.

Hazardous decomposition products: Depend upon temperature, air supply and presence of other materials. Can include, but are not limited to carbon dioxide, carbon monoxide, nitrogen oxides, amines, hydrogen cyanide, lower molecular weight organic molecules.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin and Eye Contact, Ingestion.

Symptoms of exposure:

Acute toxicity:

Oral: May be harmful if swallowed. Adverse symptoms may include abdominal pain, nausea, and diarrhea.

Dermal: May be harmful in contact with skin. Adverse symptoms may include irritation and redness.

Inhalation: Inhalation is unlikely due to the low vapor pressure. However, if handled at elevated temperatures, it may give off-gas, vapor or mist that is very irritating to the respiratory system. Adverse symptoms may include nausea, headache, and difficulties with breathing.

Skin corrosion / irritation:

Irritating to skin. Skin contact may result in dermatitis, either irritative or allergic.

Serious eye damage / eye irritation:

Causes serious eye irritation. Adverse symptoms may include tearing, redness and swelling.

Specific target organ toxicity, single exposure:

No data available.

Aspiration hazard: Not an aspiration hazard.

Chronic toxicity:

Respiratory and Skin Sensitizer:

This material contain component that is reported to be a respiratory or skin sensitizer.

- Bisphenol F Epoxy Resin, CAS #: 9003-36-5: skin sensitizer.
- Bisphenol A Epoxy Resin, CAS #: 25085-99-8: skin sensitizer.
- Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives, CAS #: 68609-97-2: skin sensitizer.

Germ cell mutagenicity:

This product contains components which may cause concern due to a possible mutagenic effects, but for which the available information is not adequate for making a satisfactory assessment.

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Carcinogenicity:

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, EPA, OSHA, ACGIH.

Reproductive toxicity:

Based on available information, risk to humans is not expected from exposure to this product.

Specific target organ toxicity, repeated exposure:

Not known.

Medical conditions aggravated by overexposure:

Skin disorders if product is handled without adequate protection.

Toxicity test results: Not available for mixture. Results for components:

Components	Test Results
Bisphenol F Epoxy Resin, CAS #: 9003-36-5	<p><u>Acute Toxicity</u> Oral: LD50 (Rat, male and female): > 5,000 mg/kg (OECD Test Guideline 401) GLP: yes Dermal:LD50 (Rat, male and female): > 2,000 mg/kg (OECD Test Guideline 402) GLP: yes Skin corrosion/irritation: causes skin irritation. Serious eye damage/eye irritation (Rabbit): Causes serious eye irritation.</p> <p><u>Chronic Toxicity:</u> Sensitization, skin and respiratory: may cause an allergic skin reaction. Germ cell mutagenicity: in vitro: with and without metabolic activation (OECD Test Guideline 471, 473 and 476) Result: positive, GLP: yes; in vivo: Cell type: Somatic, Oral, 48 hrs: Dose: 2000 mg/kg (OECD Test Guideline 474 and 486) Result: negative, GLP: yes Carcinogenicity: No data available Reproductive Toxicity: Effects on fertility: Oral (Rat, male and female) (OECD Test Guideline 416) GLP: yes Effects on fetal development: Dermal (Rabbit, female): General Toxicity Maternal: NOAEL: 30 mg/kg body weight; Result: No teratogenic effects. GLP: yes STOT, RE: Ingestion (Rat, male and female), 13 Weeks/7days: NOAEL: 250 mg/kg (Subchronic toxicity)</p>
Bisphenol A Epoxy Resin, CAS #: 25085-99-8	<p><u>Acute Toxicity</u> Oral LD50 (Rat): >5,000 mg/kg Dermal LD50 (Rabbit): 20,000 mg/kg Inhalation LC50 (Rat): No data available Skin corrosion/irritation (Rabbit): Prolonged and repeated contact may cause skin irritation with local redness. Serious eye damage/eye irritation (Rabbit): May cause eye irritation. Corneal injury is unlikely.</p> <p><u>Chronic Toxicity:</u> Sensitization, skin: Has caused allergic skin reactions in humans. Did not demonstrate the potential for contact allergy in mice. Germ cell mutagenicity: In vitro genetic toxicity studies were negative in some cases and positive in other cases. Animal genetic toxicity studies were negative. Carcinogenicity: Many studies have been conducted to assess the potential carcinogenicity of DGEBA. The most recent review of the available data by the IARC has concluded that DGEBA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic. Reproductive toxicity: Not observed. Resins based on the DGEBA did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact or by ingestion. STOT, RE: Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.</p>
Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives, CAS #: 68609-97-2	<p><u>Acute Toxicity</u> Oral: LD50 (Rat, male): ca. 30.1 ml/kg, GLP: no Inhalation: LCO (Rat), 7hrs / vapor: > 0.15 mg/L Skin corrosion/irritation: causes skin irritation.</p> <p><u>Chronic Toxicity:</u> Sensitization, skin and respiratory: may cause an allergic skin reaction. Germ cell mutagenicity: in vitro: with and without metabolic activation (OECD Test Guideline 476) Result: negative, GLP: yes; in vivo: Cell type: Somatic: intraperitoneal injection (OECD Test Guideline 474), Result: negative, GLP: yes Reproductive Toxicity: Dermal (Rat, female): NOEL: 200 mg/kg body weight (OECD Test Guideline 414), No teratogenic effects. STOT, RE: Dermal (Rat, male and female), 13 Weeks: NOEL: 1 mg/kg/d (Subchronic toxicity)</p>

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Acutely and chronically hazardous for aquatic organisms. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Persistence and degradability: Expected to be moderately biodegradable based on components info.

Bioaccumulative potential: No significant accumulation in organisms is expected.

Mobility in soil: Not known.

Other adverse effects: Not known.

Ecotoxicity test results: Not available for the mixture. Results for components:

Components	Test Results
	Ecotoxicity Ingredients:
Bisphenol F Epoxy Resin, CAS #: 9003-36-5	<p><u>Acute Toxicity</u> Fish (rainbow trout), 96hrs: LC50: 0.55 mg/L (OECD Test Guideline 203, semi-static test, Fresh water), GLP: no Aquatic invertebrates (Daphnia magna), 48hrs: EC50: 1.6 mg/L (OECD Test Guideline 202, static test, Fresh water), GLP: no Algae (green algae), 72hrs: EC50: 1.8 mg/L (OECD Test Guideline 201, static test, Fresh water), GLP: no</p> <p><u>Chronic toxicity:</u> Aquatic invertebrates (Daphnia magna), 21days: NOEC: 0.3 mg/L(OECD Test Guideline 211, semi-static test, Fresh water), Activated sludge (Bacteria), 3hrs: IC50: >100 mg/L (static test, Fresh water), GLP: no Persistence and degradability :</p>



	<p>Biodegradability: Inoculum: activated sludge Concentration: 3 mg/L-Not readily biodegradable. Biodegradation, 28days: ca. 0 % (Directive 67/548/EEC Annex V, C.4.E.) Partition coefficient: n- octanol/water: log Pow: 2.7 - 3.6 (OECD Test Guideline 117) GLP: yes Mobility in soil: Distribution among environmental compartments: Koc: 4460 (OECD Test Guideline 121)</p>
Diglycidyl Ether of Bisphenol A Homopolymer, CAS #: 25085-99-8	<p><u>Acute Toxicity</u> Fish: LC50 (fathead minnow), 96hrs: 3.1 mg/L (OECD Guideline 203, static) Aquatic invertebrates: EC50 (Daphnia magna), 48hrs: 1.4 - 1.7 mg/L (OECD Guideline 202, part 1, static) <u>Ecological Data</u> Microorganisms, IC50 (Bacteria), 18hrs: > 42.6mg/L (Growth inhibition) Bioconcentration potential: moderate (BCF 100-3,000 or Log Pow between 3 and 5). Mobility in soil: Low (Koc 500-2,000) Based on its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process. Henry's Law Constant (H): ≤ 6.94E-09 atm*m³/mole; @25 °C Estimated. Partition coefficient, n-octanol/water (log Pow): 3.7 - 3.9 Measured Partition coefficient, soil organic carbon/water (Koc): 1,800 - 4,400 Estimated. <u>Elimination data</u> Biodegradability, 28days: 12% BOD of the ThOD; Not readily biodegradable (OECD Guideline 302 B); however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.</p>
Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives, CAS #: 68609-97-2	<p><u>Acute Toxicity</u> Fish (rainbow trout), 96hrs: LC50: 5,000 mg/L (OECD Test Guideline 203, static test, Fresh water), GLP: yes Aquatic invertebrates (Daphnia magna), 48hrs: EC50: 7.2 mg/L (OECD Test Guideline 202, static test, Fresh water), GLP: yes Algae (green algae), 72hrs: EC50: 843.75 mg/L (OECD Test Guideline 201, static test, Fresh water), GLP: no <u>Chronic toxicity:</u> Activated sludge (Bacteria), 3hrs: IC50: >100 mg/L (OECD Test Guideline 209), GLP: yes Biodegradability: Inoculum: Domestic sewage Concentration: 100 mg/L - Readily biodegradable. Biodegradation, 28days: 87% (OECD Test Guideline 301F) Partition coefficient: n- octanol/water: log Pow: 3.77 (20 °C) (OECD Test Guideline 107) GLP: yes</p>

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal: The generation of waste should be avoided or minimized wherever possible. If product becomes a waste, it does not meet criteria of hazardous waste as defined in 40 CFR 261, Subpart C and D. Do not discharge into any sewers, on the ground, or into any body of water. Spill cleanup residues may still be subject to RCRA storage and disposal requirements. All disposal practices must be in compliance with local, state and federal regulations via licensed waste disposal contractor.

Container disposal: Even after emptying, container may retain residues. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed through licensed contractor in accordance with government regulations. This material and its container must be disposed of in a safe way.

SECTION 14 – TRANSPORT INFORMATION

	Land transport, U.S. DOT	Sea transport, IMDG:	Air transport, IATA/ICAO:
UN number:	Not regulated for transport	UN 3082	UN 3082
UN proper shipping name:		Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin, Epoxy Phenol Novolac Resin)	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin, Epoxy Phenol Novolac Resin)
Transport hazard class(es):		9	9
Packing group:		III	III
Hazard Label			
Special precautions:		Marine pollutant: yes EMS Code: F-A,S-F	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

SECTION 15 – REGULATORY INFORMATION

U.S. Regulations:

OSHA HCS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200.

TSCA Regulations:

All components of this product are listed or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

EPCRA Section 302 (40 CFR Part 355) (Emergency Response Planning, Extremely Hazardous Substance):

No components are subject to the reporting.

EPCRA Section 304 (40 CFR Part 355) (Emergency Release Notification Requirements):

No components are subject to the reporting.

EPCRA Sections 311 & 312 (Hazardous Chemical Inventory Reporting, Hazard Categories):

Acute Health Hazard, Chronic health hazard

EPCRA Section 313 (40 CFR Part 372) (Toxic Chemical Release Inventory Reporting):

No components or impurities of this product are present above De Minimis level and therefore do not require reporting.

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CERCLA Sections 102-103 (40 CFR Part 302) (Hazardous Substances Release Notification):

No components are subject to the reporting.

Clean Air Act:

- This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
- This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
- This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCOMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act:

- Section 307(a) (Toxic pollutants): No components are listed.
- Section 311(b)(2): Table 116.4A (Hazardous chemicals) / Table 117.3 (RQ): No components are listed.

NFPA rating: Health: 2 Fire: 1 Reactivity: 0 Special: -
HMIS rating: Health: 2 Flammability: 1 Physical hazard: 0

State Regulations:

California Prop. 65 Components:

This product contains a chemical known to State of California to cause cancer, birth defects, or any other reproductive harm.

- 1-chloro-2,3-epoxypropane, CAS #: 106-89-8; cancer and birth defects or other reproductive harm.

Instruction: for regulatory information on components of this mixture, check the appropriate state websites.

International Regulations/Inventories:

Canadian Regulations: All ingredients of this product are listed or are exempt from the DSL.

WHMIS Classification (Controlled Products Regulations): Class D-2A: Material causing other toxic effects (Very Toxic).
Class D-2B: Material causing other toxic effects (Toxic).

WHMIS Label Information:



Listed on the following inventories: AICS (Australia), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines)

SECTION 16 – OTHER INFORMATION

Disclaimer: The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Duracorp makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.

May 13, 2016

Production Declaration

This product conforms to California VOC emission regulations utilizing California Department of Health Standard Practice for the Testing of Volatile Organic Emissions from Various Sources. This product also conforms to JIS Q1000:2005 Conformity Assessment - Guidelines for suppliers' declarations of conformity with product standards and JIS Q17030:2004 Conformity assessment - General requirements for third-party marks of conformity utilizing standard test method JIS A1902-3:2006 Determination of the emission of volatile organic compounds and aldehydes for building products - Sampling, preparation of test specimens and testing condition.