

## Safety Data Sheet acc. to OSHA HCS

Print Date 10/12/2015

Revision Date 10/12/2015

- **Product Identifier**
  - **Trade Name:** EP1282 CLEAR A
  - **Application of the Substance or Mixture:** Epoxy Resin
- **Details of the Supplier of the Safety Data Sheet (SDS)**
  - **Manufacturer or Supplier:**
    - Resinlab, LLC
    - N109 W13300 Ellsworth Drive,
    - Germantown, WI 53022
    - 1-800-388-8605
    - www.resinlab.com
  - **Information Department:** Product Safety Department: msds@resinlab.com
  - **Emergency Telephone Number:**
    - North America - Chemtrec: 1-800-424-9300 (24 hours)
    - International - Chemtrec: 01-703-527-3887 (24 hours)

### 2 Hazard(s) identification

- **Hazard Classification**

Skin Irrit. 2      H315 Causes skin irritation.  
 Eye Irrit. 2A      H319 Causes serious eye irritation.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.  
 Aquatic Chronic 2      H411 Toxic to aquatic life with long lasting effects.

- **Label Elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Pictogram(s)**



GHS07      GHS09

- **Signal Word** Warning

- **Hazard-determining Component(s)**

Bisphenol-A-(epichlorohydrin) epoxy resin  
 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

- **Hazard statements**

Causes skin irritation.  
 Causes serious eye irritation.  
 May cause an allergic skin reaction.  
 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wear protective gloves.  
 Wear eye protection / face protection.  
 Avoid release to the environment.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Specific treatment (see on this label).  
 Wash contaminated clothing before reuse.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard Rating System**

- **NFPA System**

- **NFPA Ratings (scale 0 - 4)**



Health = 2  
 Fire = 1  
 Reactivity = 0

NFPA special hazards (water reactivity and oxidizing property): None

- **HMIS System**

- **HMIS Ratings (scale 0 - 4)**



Health = 2  
 Fire = 1  
 Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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## 3 Composition/information on ingredients

### Chemical Characterization: Mixtures

#### Composition/Information on Ingredients

CAS: 25068-38-6 NLP: 500-033-5 Index Number: 603-074-00-8	Bisphenol-A-(epichlorohydrin) epoxy resin Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	80-90%
CAS: 74398-71-3 EC number: 616-085-8	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid Skin Sens. 1, H317	10-20%

#### Classification System:

The Classifications were based on the Toxicological and Ecological Data of the substances/mixtures in the Section 11 and 12.

#### Additional Information:

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

## 4 First-aid measures

### Description of First Aid Measures

#### General Information

Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

#### After Inhalation

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.  
In case of unconsciousness place patient stably in side position for transportation.  
Supply fresh air; consult doctor in case of complaints.

#### After Skin Contact

Remove all contaminated clothing and wash before reuse.  
Wash contaminated skin with water and soap and rinse thoroughly.  
Wash contaminated clothing and shoes before reuse.  
Seek immediate medical advice.

#### After Eye Contact

Immediately bathe eyes for 15 minutes under running water.  
Immediately remove contact lenses if present. Continue rinsing.  
Seek immediate medical advice.

#### After Swallowing

If victim is unconscious; never give anything by mouth.  
If victim is conscious; rinse out mouth and give victim small amounts of water.  
Seek medical treatment in case of complaints.

After Exposure Seek medical treatment in case of complaints.

Information for Doctor Have chemical containers, labels and/or (M)SDS ready when calling or visiting a medical center.

## 5 Fire-fighting measures

### Extinguishing Media

#### Suitable Extinguishing Agent(s)

Use fire fighting measures and extinguishing agents that suit the environment.  
In case of fire, suitable extinguishing agents are:  
Alcohol resistant foam.  
Dry chemical or fire-extinguishing powder.  
Carbon dioxide (CO<sub>2</sub>).  
Water spray or water fog.

Unsuitable Extinguishing Agent(s) Water with full jet

### Firefighting Procedures

Isolate fire and deny unnecessary entry.  
Immediately withdraw all personnel from the area in case of rising sound from venting safety device.  
Eliminate all ignition sources if safe to do so.  
Do not extinguish fire unless flow can be stopped.  
Fight fire remotely due to the risk of explosion.  
Solid stream of water may spread fire; use water spray or water fog.  
Cool all affected containers with flooding quantities of water.  
Burning liquids may be moved by flushing with water; protect personnel and minimize property damage.  
Contain fire water runoff if possible to prevent environmental pollution.

### Special Hazards Arising in Fire

Will not burn unless preheated.  
In case of fire, following can be released:  
Phenolic compounds  
Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)

### Advice for Firefighters

If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).  
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

Additional Information Ensure adequate and functional fire fighting facilities equipped in working area at all times.

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### 6 Accidental release measures

- **Personal Precautions**

Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.  
Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.

- **Environmental Precautions**

Keep away from sewage system or other water courses; do not penetrate ground/soil.  
Inform respective authorities in case of any seepage to the environment.

- **Cleaning Up Methods**

Ensure adequate ventilation.  
Eliminate all ignition sources.  
Keep unauthorized personnel away.  
Allow molten product to cool.  
Absorb residues with liquid-binding materials.  
Ventilate and wash area after clean-up is complete.  
Collect spills in suitable and properly labeled containers.  
Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.  
Dispose contaminated chemicals as waste according to Section 13.

- **Additional Information** No further relevant information.

### 7 Handling and storage

- **Handling**

- **Precautions for Safe Handling**

Obtain special instruction before use; do not handle until all safety precautions have been read and understood.  
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during handling.  
Wear respiratory protection when handling.  
Keep away from incompatible material(s).  
Avoid any release into the environment.  
Observe all the personal protection requirements in Section 8.

- **Information about Protection Against Explosions and Fires**

Will not burn unless preheated.  
Keep away from heat, sparks, open flame and other ignition sources during handling.

- **Storage**

- **Requirements to be Met by Storerooms and Receptacles**

Store in a well-ventilated place; provide ventilation for receptacles.  
Keep stored in accordance with local, regional, national, and international regulations.

- **Information about Storage in One Common Storage Facility**

Store away from incompatible material(s).  
Store away from foodstuffs.  
Avoid release to the environment.

- **Additional Information** No further relevant information.

### 8 Exposure controls/personal protection

- **Engineering Measures or Controls**

- **Exposure Limit Values that Require Monitoring at the Workplace**

The substance/mixture does not contain any relevant quantities of substances with critical values that have to be monitored at the workplace.

- **Other Engineering Measures or Controls**

Ventilation rates should be matched to conditions.  
If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

- **Personal Protective**

- **General Protective and Hygienic Measures**

Avoid any contact with eye.  
Do not eat, drink or smoke during work.  
Keep food, drink or feed away from working area.  
Contaminated work clothing is not allowed out of workplace.  
Clean hands and exposed skin thoroughly after work and before breaks.

- **Personal Protective Equipment (PPE)**

- **Breathing Equipment**

Caution! Improper use of respirators is dangerous.  
In case of brief exposure or low pollution, use a respiratory filter device.  
In case of intensive or longer exposure, use a positive-pressure respiratory protective device that is independent of circulating air.

- **Hand Protection**

Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.

Suggested glove type(s):

Nitrile Gloves  
Butyl Rubber Gloves

- **Eye Protection** safety glasses with side shields and or face shield.

- **Body Protection** Chemical resistant apron; cover exposed skin.

- **Additional Information**

All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.

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The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

## 9 Physical and chemical properties

### Information on Basic Physical and Chemical Properties

- **Appearance:**
  - **Form:** Liquid
  - **Color:** Clear
  - **Odor:** Mild epoxy odor
- **Odor Threshold:** Not determined.

- **PH-Value:** Not determined.

- **Change in Condition:**
  - **Melting Point:** Not determined.
  - **Boiling Point:** >260 °C (>500 °F)
  - **Flash Point:** >252 °C (>486 °F)
- **Decomposition Temperature:** Not determined.
- **Auto-ignition Temperature:** Not determined.
- **Flammability:** Not determined.
- **Explosion:** Not determined.

- **Explosion Limits:**
  - **Lower:** Not determined.
  - **Upper:** Not determined.

- **Vapor Pressure:** Not determined.
- **Vapor Density:** not determined
- **Density at 25 °C (77 °F):** 1.14 g/cm<sup>3</sup> (9.513 lbs/gal)
- **Solubility in or Miscibility with**
  - **Water:** Not miscible or difficult to mix.
- **Viscosity:**
  - **Dynamic at 20 °C (68 °F):** 4500 mPas
  - **Kinematic:** Not determined.

## 10 Stability and reactivity

- **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.
- **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
- **Thermal Decomposition and Conditions to be Avoided**  
Keep away from incompatible material(s).  
Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.
- **Possibility of Other Hazardous Reaction(s)** No further relevant information available.
- **Incompatible Material(s)**  
Amines  
Oxidizing agents  
Acids  
Bases (Alkalis)
- **Hazardous Decomposition Product(s)**  
Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.
- **Hazardous Polymerization Product(s)** No relevant information.

## 11 Toxicological information

### Acute Toxicity

#### Oral

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Oral	LD50	11400 mg/kg (rat) 15600 mg/kg (mouse) Reference: NLM Toxnet (2010).
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#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Oral	LD50	> 5000 mg/kg (rat) Reference: Hexion (M)SDS (2003).
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- **Potential Health Effect(s):** Not a classified acute oral hazard.

#### Dermal

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Dermal	LD50	20000 mg/kg (rabbit) (Test guideline not available) > 1270 mg/kg (mouse) > 2000 mg/kg (rat) > 1600 mg/kg (rabbit); however, there was no fixed test result available; classification was not possible without further information.
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#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Dermal	LD50	> 2000 mg/kg (rabbit) Reference: Hexion (M)SDS (2003).
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- **Potential Health Effect(s):** Not a classified acute dermal hazard.

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### · Inhalative

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data)

#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data)

· **Potential Health Effect(s):** Not a classified acute inhalative hazard.

### · Skin Corrosion or Irritation

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Corrosion/Irritation irritating (rabbit)

Acute skin irritation was mild, through repeated and prolonged exposure may cause severe irritation. The substance was classified as Category 2 by GHS-J.  
Reference: HSNO CCID (2010) and GHS-J (2006).

#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Corrosion/Irritation slightly irri. (Test species: n/a)

Based on manufacturer's test result, the substance was slightly irritating to skin (Category 3).  
Reference: Hexion (M)SDS (2003).

### · Potential Health Effect(s):

Causes skin irritation.  
In contact with skin, may cause:  
redness and pain

### · Eye Serious Damage or Irritation

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Damage/Irritation irritating (rabbit)

The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin.

#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Damage/Irritation (No data available)

### · Potential Health Effect(s):

Causes serious eye irritation.  
In contact with eye, may cause:  
redness and pain

### · Respiratory or Skin Sensitization

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Sensitization Skin

sensitizing (Human)

Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS-J classified the substance as a dermal sensitizer.  
Reference: GHS-J (2006).

Respiratory

(No data available)

#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Sensitization Skin

sensitizing (Test species: n/a)

Based on manufacturer's test result, the substance was a skin sensitizer, and the sensitization can be severe in susceptible individuals.  
Reference: Hexion (M)SDS (2003).

Respiratory

(No data available)

### · Potential Health Effect(s):

May cause an allergic skin reaction.  
No relevant information for respiratory sensitization; classification is not possible.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### · Germ Cell Mutagenicity

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Mutagenicity

positive (Chinese hamster lung fibroblast cells) (In Vitro (Chromosomal Aberration))

In Vitro (Chromosomal Aberration; Chinese hamster lung fibroblast cells) - Positive without metabolic activation; negative with metabolic activation.

Positive (salmonella typhimurium) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to make a conclusion of mutagenicity of the substance.  
Reference: NLM CCRIS (2010).

#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Mutagenicity (No data available)

· **Potential Health Effect(s):** No further relevant information; classification is not possible.

### · Carcinogenicity

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Carcinogenicity

negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA)

(Mouse)

1 out of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 10% concentration of the substance for two years. When considering all of the evidence, the substance was not classified as a carcinogen.

#### 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Carcinogenicity negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA)

· **Potential Health Effect(s):** Not a known Carcinogen.

### · Reproductive Toxicity

#### 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

Reproductive Toxi.

negative (Test species: n/a) (no reproductive or developmental effect observed)

There was no reproductive or developmental effect observed at dosing levels that were toxic to parental animals.  
Reference: GHS-J (2006).

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**74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid**

Reproductive Toxi. (No data available)

· **Potential Health Effect(s):** Not a known Reproductive hazard.· **Specific Target Organ Toxicity - Single Exposure****25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin**

STOT-Single Target: N/A (guinea pig) (insufficient data for classification)  
 Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 11400 mg/kg to rats, or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of the guidance value ranges.  
 Reference: NLM Toxnet (2010).

**74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid**

STOT-Single (No data available)

· **Potential Health Effect(s):** Not a known hazard to organs upon single exposure.· **Specific Target Organ Toxicity - Repeated Exposure****25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin**

STOT-Repeated Target: N/A (guinea pig) (insufficient data for classification)  
 With dermal application of the substance for 55 days, increased seromucoid concentrations, decreased lactate-dehydrogenase (LDH), and decreased leucynaphthylamidase (LNA) were observed in the test animals. Meanwhile, the substance caused a toxic effect on blood components of female guinea-pigs with greater effects on pregnant animals. However, there was no detail available regarding the dose level or test guideline, classification was thus not possible.  
 Reference: HSNO CCID (2010).

**74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid**

STOT-Repeated (No data available)

· **Aspiration Hazard****25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin**

Aspiration Hazard (No data available)

**74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid**

Aspiration Hazard (No data available)

· **Potential Health Effect(s):** No relevant information; classification is not possible.

## 12 Ecological information

· **Aquatic Environmental Toxicity****25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin**

Algae Toxicity	(No data available)
Crustacean Toxicity	1.4 - 1.7 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs))
Fish Toxicity	1.41 mg/l (Oryzias latipes (Rice fish)) (LC50 (96 hrs)) 3.1 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs)) Based on the non-rapid degradability and the acute LC50 < 10 mg/L, the substance is classified as a Chronic-2 environmental hazard. Reference: CHRIP (2010).

**74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid**

Algae Toxicity (No data available)

Crustacean Toxicity (No data available)

Fish Toxicity (No data available)

· **Aquatic Environmental Toxicity Assessment:** Toxic to aquatic life with long lasting effects.· **Degradability and Stability****25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin**

Biodegradation non-biodegrad. (Test species: n/a) (Biodegradation (OECD TG 302B; 28 days) = 12%)  
 (Activated Sludge) (OECD TG 301C; 4 weeks; Conc. 100 mg/L)  
 Biodegradation (Indirect Analysis from BOD) = 0%  
 Biodegradation (Direct Analysis from HPLC) = 0%  
 The substance is non-biodegradable.  
 Reference: CHRIP (2010).

Persistence (Test species: n/a) (This substance is persistent)  
 Reference: Canada DSL (2007) and CHRIP (2010).

Photodegradation 6.69E-11 cm<sup>3</sup>/molecule-sec (OH radical) (Half-life (T1/2) = 1.92 hrs)  
 However, photolysis in water is negligible.

Stability in water (No data available)

**74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid**

Biodegradation non-biodegrad. (Test species: n/a) (Non-biodegradable due to persistent property)  
 Based on the persistent assessment according to Canada DSL, the substance is expected to be non-degradable in the environment.

Persistence (Test species: n/a) (The substance is persistent)  
 Reference: Canada DSL (2007).

Photodegradation (No data available)

Stability in water (No data available)

· **Bioaccumulation and Distribution****25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin**

LogPow 3.7 - 3.9 (Test species: n/a)  
 BCF 0.56-42 (Cyprinus carpio) (The substance is low-bioaccumulative)  
 BCF (28 days; Concentration: 10 µg/L) = 0.56 - 0.67, 3.3 - 4.2  
 BCF (28 days; Concentration: 1 µg/L) = 5.6 - 6.8, 33 - 42  
 Reference: CHRIP (2010).

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Koc	1800 - 4400 L/kg (soil) Potential for mobility in soil is moderate.
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LogPow	(No data available)
BCF	(Test species: n/a) (The substance is not bioaccumulative) Reference: Canada DSL (2007).
Koc	(No data available)

· **Degradability and Bioaccumulation Assessment:** Non-rapidly degradable, and low bioaccumulative.

## 13 Disposal considerations

- **Hazardous Waste List**
  - **Description:** It may be necessary to contain and dispose of the substance/mixture as a hazardous waste.
  - **Waste Treatment Recommendation:**  
Generation of waste should be avoided or minimized wherever possible.  
Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.  
Dispose of contents/containers in accordance with local, regional, national, and international regulations.
- **Unused and Uncontaminated Packagings**
  - **Recommendation** Dispose of according to your local waste regulations.

## 14 Transport information

· <b>UN-Number</b> · DOT, ADR, IMDG, IATA	UN3082
· <b>UN Proper Shipping Name</b> · DOT, ADR, IMDG, IATA	Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-(epichlorohydrin) epoxy resin)
· <b>Transport hazard class(es)</b> · DOT, IMDG, IATA	
 	
· <b>Class</b> · <b>Label</b>	9 Miscellaneous dangerous substances and articles 9
· <b>ADR</b>	
 	
· <b>Class</b> · <b>Label</b>	9 (M6) Miscellaneous dangerous substances and articles 9
· <b>Packing group</b> · DOT, ADR, IMDG, IATA	III
· <b>Environmental Hazards:</b> · <b>Marine Pollutant:</b>	Yes Symbol (fish and tree) Symbol (fish and tree)
· <b>Special Marking (ADR):</b> · <b>Special Marking (IATA):</b>	Symbol (fish and tree)
· <b>Special Precautions:</b> · <b>Danger Code (Kemler):</b> · <b>EMS Number:</b>	Warning: Miscellaneous dangerous substances and articles 90 F-A, N/A
· <b>Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional Information:</b>	
· <b>DOT</b> · <b>Quantity limitations</b>	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· <b>Remarks:</b>	Special marking with the symbol (fish and tree).
· <b>ADR</b> · <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b> · <b>Limited quantities (LQ)</b>	5L

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· **Exempted quantities (EQ)**

Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES,  
 LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOXY  
 RESIN), 9, III

## 15 Regulatory information

· **USA Regulation Lists**· **SARA (Superfund Amendments and Reauthorization Act of 1986)**· **Section 302 (Extremely Hazardous Substances)**

None of the ingredients is listed.

· **Section 313 (Toxics Release Inventory (TRI) reporting)**

None of the ingredients is listed.

· **Section 311/312 (Hazardous Chemical Inventory Reporting)**

25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	A, C	80-90%
74398-71-3	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	A, C	10-20%

· **Hazard Abbreviations for SARA 311/312**

A - Acute Health Hazard  
 C - Chronic Health Hazard  
 F - Fire Hazard  
 R - Reactive Hazard  
 S - Sudden Release of Pressure Hazard

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65**· **Chemicals Known to Cause Cancer**

106-89-8 | 1-chloro-2,3-epoxypropane

· **Chemicals Known to Cause Reproductive Toxicity for Females**

None of the ingredients is listed.

· **Chemicals Known to Cause Reproductive Toxicity for Males**

None of the ingredients is listed.

· **Chemicals Known to Cause Developmental Toxicity**

106-89-8 | 1-chloro-2,3-epoxypropane

· **Carcinogenic Categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value Established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **International Regulation Lists**· **Canadian Domestic Substance Listings:**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **Chinese Chemical Inventory of Existing Chemical Substances:**

All ingredients are listed.

· **Japanese Existing and New Chemical Substance List:**

All ingredients are listed.

· **Korean Existing Chemical Inventory:**

All ingredients are listed.

· **European Pre-registered substances:**

All ingredients are listed.

· **REACH - Substances of Very High Concern (SVHC) List:**

None of the ingredients is listed.

· **Restriction of Hazardous Substances Directive (RoHS) list:**

None of the ingredients is listed.

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# Safety Data Sheet

## acc. to OSHA HCS

Print Date 10/12/2015

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Trade Name: EP1282 CLEAR A

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### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department Issuing (M)SDS:** Product Safety Department  
 · **Contact:** msds@resinlab.com

· **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
 ACToR: US EPA Aggregated Computational Toxicology Resource  
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road  
 BCF: Bioconcentration Factor  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System  
 CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform  
 DOT: US Department of Transportation  
 DSL: Canada Domestic Substance List  
 ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH  
 HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System  
 HSDB: US NLM TOXNET Hazardous Substances Databank  
 HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database  
 IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)  
 IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)  
 ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)  
 ICSC: International Chemical Safety Cards  
 IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)  
 IUCLID: EU REACH International Uniform Chemical Information Database  
 Koc: Partition coefficient, soil Organic Carbon to water  
 LC50/LD50: Lethal Concentration/Dose, 50 percent  
 N/a: Not available or Not applicable  
 NFPA: US National Fire Protection Association  
 NIOSH: US National Institute of Occupational Safety and Health  
 NITE: National Institute of Technology and Evaluation, Japan  
 NLM TOXNET: US National Library of Medicine Toxicology Data Network  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: US Occupational Safety and Health Administration  
 P: Marine Pollutant  
 RCRA: Resource Conservation and Recovery Act (USA)  
 REACH: EU Registry, Evaluation and Authorisation of Chemicals  
 RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)  
 RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)  
 RTECS: US Registry of Toxic Effects of Chemical Substances  
 SARA: US Superfund Amendments and Reauthorization Act  
 SIDS: OECD existing chemicals Screening Information Data Sets  
 SVHC: EU ECHA Substance of Very High Concern  
 TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)  
 TOXLINE: US NLM bibliographic database search system  
 TSCA: US Toxic Substance Control Act  
 ESIS: European Chemical Substances Information System  
 · **Date of preparation / last revision** 10/12/2015 / 3

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