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#### Product Identifier

Trade Name: EP1056LC BLACK 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



Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



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.

## Label Elements

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

Pictogram(s)





GHS07

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.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

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.

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If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Collect spillage.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Prevention

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

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

Avoid release to the environment.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

**Disposal** 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.

## 3 Composition/information on ingredients

## Chemical Characterization: Mixtures

Composition/Inform	mation 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	50-60%
CAS: 1317-65-3 EINECS: 215-279-6 RTECS: EV 9580000	Calcium Carbonate	10-20%
CAS: 74398-71-3 EC number: 616-085-8	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335 Aquatic Acute 2, H401	10-20%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	2.5-5%
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	0.1-<1%
CAS: 14808-60-7 EINECS: 238-878-4 RTECS: VV 7330000	Quartz © Carc. 2, H351	0-<0.1%

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## Classification System:

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

## 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.

Supply fresh air and to be sure call for a doctor.

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.

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.

## Indication of any Immediate Medical Attention and Special Treatment Needed

After frequent or high intense exposure, the following medical tests are recommended:

eye tests

skin tests

Check section 11 Toxicological Information for further relevant information.

## Additional Information

For additional information, please consult the corresponding first aid measures in the most current version of Emergency Response Guidebook which is produced by the US Department of Transportation.

## 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 (CO₂).

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.

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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.

No information available.

Fight fire from protected location or safe distance.

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:

Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.

Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)

Calcium oxide (CaO)

Silicon oxide (SiO₂)

## 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 Be Caution! Finely dispersed substance may form explosive mixtures in air.

## 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.

For large spills:

Shut off source of leak if safe to do so.

Dike and contain.

Remove with vacuum trucks or pump to storage/salvage vessels.

Allow molten product to cool.

Absorb residues with liquid-binding materials.

Avoid confined spaces, such as sewers, because of the possibility of an explosion.

For small spills:

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.

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Keep away from heat, sparks, open flame and other ignition sources during handling. Dust can combine with air to form an explosive mixture.

## 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

1317-65-3 (	Calcium Carbonate
TEEL	Short-term value: 15.0 mg/m³ Long-term value: 60.0 mg/m³ SCAPA, 2008
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
OSHA PEL	Short-term value: 15 mg/m³
US ACGIH	Short-term value: 10 mg/m³
1333-86-4	Carbon black
PEL	Long-term value: 3.5 mg/m³
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m³ *inhalable fraction
14808-60-7	Quartz
PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m³ *as respirable fraction

## 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.

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#### Hand Protection



Protective gloves

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



Tightly sealed goggles

**Body Protection** No relevant information.

#### Additional Information

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

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: Paste Color: Black

Odor: Mild epoxy odor
Odor Threshold: Not determined.

PH-Value: Not determined.

Change in Condition:

\* Melting Point:

\*\*Boiling Point:

\*\*Flash Point:

\*\*Plash Point:

\*\*Promposition Temperature:

\*\*Not determined.

\*\*>200 °C (>392 °F)

\*\*Promposition Temperature:

\*\*Not determined.

\*\*Not determined.

Decomposition Temperature:

Flammability:

Explosion:

Not determined.

Not determined.

Explosion Limits:

Lower:Not determined.Upper:Not determined.

\* Vapor Pressure: 38.7 hPa (29 mm Hg)
\* Vapor Density: not determined

Density at 25 °C (77 °F): 1.28 g/cm³ (10.682 lbs/gal)

Solubility in or Miscibility with

Water: Not miscible or difficult to mix.

Segregation coefficient LogPow (n-octanol/

water): Not determined.

Viscosity:

Dynamic at 20 °C (68 °F): 325000 mPas

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\* Kinematic: Not determined.

**Additional Information**No further relevant information.

## 10 Stability and reactivity

· Physical Hazard(s) Not a regulated reactive or physical hazard under GHS.

## Hazardous Reactivity and Chemical Stability

exothermic reactions including polymerization may occur in contact with amines, strong acids, strong bases, alcohols, strong oxidizing agents and excessive heat.

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)

May ignite on contact with fluorine.

No further relevant information available.

#### Incompatible Material(s)

Oxidizing agents, Acids

Bases (Alkalis)

Alum, Fluorine, Ammonium salts, Mercury/hydrogen mixture, and Magnesium

## · Hazardous Decomposition Product(s)

Irritating fumes

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.
- Additional Information No further relevant information.

## 11 Toxicological information

For detailed Toxilogical Information please email the Product Safety Department.

## 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).

#### 1317-65-3 Calcium Carbonate

Oral LD50 6450 mg/kg (rat)

Reference: Imerys (M)SDS (2008).

## 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).

#### 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Oral LD50 >5000 mg/kg (rat) (test method not specified)

Reference: Cabot (M)SDS (2012).

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

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## · 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.

Reference: Royce (M)SDS (2011) and ChemID (2010).

#### 1317-65-3 Calcium Carbonate

Dermal LD50 (-)

No data available.

#### 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).

#### 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Dermal LD50 (Test species: n/a) (Toxicity not expected based on acute oral data)

Based on the acute oral toxicity test, it was expected that toxicity to mammals via dermal application of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute dermal hazard as a wetted form.

Potential Health Effect(s): Not a classified acute dermal hazard.

#### 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)

## 1317-65-3 Calcium Carbonate

Inhalative LC50/4 h (-)

No data available.

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

Inhalative LC50/4 h (No data available)

### 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

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

Due to wetted form of the substance, inhalative effects from dust form can be seen as negligible. Meanwhile, based on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalation hazard.

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

### 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).

#### 1317-65-3 Calcium Carbonate

Corrosion/Irritation moderately (-)

The substance is moderately irritating based on the PH = 9.5 with concentration of 50g/L of water at 20C.

moderately (rabbit) (Draize test)

500 mg/24h, the pure substance shows no irritating effect, however, the impurities or degradation products may lead to

irritant effects on the sweating skin due to alkalinity. Reference: IUCLID dataset of CAS No. 471-34-1 (2000).

### 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).

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## 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Corrosion/Irritation | Non-irritating (Test species: n/a) (Primary irritation index=0)

mildly irritating (rabbit) (Read across from CAS 63148-62-9)

No test detail available; for safety reasons, the substance was classified as mildly irritating (Category 3) to rabbit skin.

Reference: HSNO CCID (2010).

#### Potential Health Effect(s):

Causes skin irritation.

In contact with skin, may cause:

redness and pain

### Eve 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.

#### 1317-65-3 Calcium Carbonate

Damage/Irritation slightly (Human)

The substance is slightly irritating to the eyes.

Reference: IUCLID Dataset of CAS No. 471-34-1 (2000).

not irritating (rabbit)

No toxic effect when applied to surface of rabbit eyes Reference: ACToR of CAS No. 471-34-1 (2010).

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

Damage/Irritation (No data available)

## 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Damage/Irritation | slightly irrit. (Human) (Read across from CAS 63148-62-9) non-irritating (Primary irritation index=0)

Transient ocular irritation was observed in humans, rabbits, dogs, and monkeys after injection of the substance to their eye bodies. However, those effects can be seen as negligible based on regular use of the substance. When applying lower viscosity substance-oil mixture to human and rabbit eyes, there was no cornea injury, but a delay of healing of the existed corneal erosion observed. For safety reasons, the substance was classified as a slight eye irritant (Category

Reference: ACToR (2011) and Cabot (M)SDS (2012).

## 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).

(No data available) Respiratory

## 1317-65-3 Calcium Carbonate

Sensitization Skin

No data available.

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)

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#### 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Sensitization Skin (No data available)

Primary irritation index=0 Non-irritating.

Cabot MSDS (2012)

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).

#### 1317-65-3 Calcium Carbonate

Mutagenicity negative (-)

The pure substance is not listed as a carcinogen by NTP, IARC or OSHA.

Reference: Imerys (M)SDS (2008).

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

Mutagenicity (No data available)

## 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Mutagenicity negative (Chinese Hamster) (In Vitro (AMES Test))

negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells))

Reference: Cabot (M)SDS (2012).

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.

Reference: Dow (M)SDS (2010).

#### 1317-65-3 Calcium Carbonate

Carcinogenicity negative (salmonella typhimurium) (Preincubation)

In Vitro - Negative with and without metabolic activation.

Reference: NLM TOXNET of CAS No. 471-34-1 (2010).

### 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)

#### 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

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

## 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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#### 1317-65-3 Calcium Carbonate

Reproductive Toxi.

Up to 1.25% diet of the substance for 6 weeks prior to mating and during gestation and found no adverse effects.

Reference: ACToR of CAS No. 471-34-1 (2010).

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

Reproductive Toxi. (No data available)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

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: None (Rats and Mice) (No effect after single oral doses)

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).

#### 1317-65-3 Calcium Carbonate

STOT-Single

(Human)

Inhalation 0.005 mg/L for 3 hours:

target organs - systemic toxicity

May affect nasal function and cause nasal symptoms.

Ingested up to 15g of the substance:

target organs - systemic toxicity

Symptoms included: fatigue, anorexia, nausea and vomiting, an elevated blood pressure, hemoconcentration, leukocytosis, metabolic alkalosis, elevated body weight and hypokalemia.

Reference: ACToR of CAS No. 471-34-1 (2010).

Exposed to 0.0812 mg/L for 90 minutes/ after 21 hr. No effect on lung weight, macrophage

concentration, or histopathology.

Reference: ACToR of CAS No. 471-34-1 (2010).

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

(No data available)

## 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

STOT-Single (dynamic) (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 lactatedehydrogenase (LDH), and decreased leucylnaphthylamidase (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).

## 1317-65-3 Calcium Carbonate

STOT-Repeated (Human)

Target organs - Systemic toxicity

Symptoms: Infrequent instances of hypercalcemia with alkalosis, calcinosis, azotemia, renal dysfunction, GI hemorrhage and vomiting or aspiration through nasogastric tube seem to predispose to the disorder.

Reference: ACToR of CAS No. 471-34-1.

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

STOT-Repeated (No data available)

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67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

STOT-Repeated (No data available)

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

Aspiration Hazard

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

Aspiration Hazard (No data available)

1317-65-3 Calcium Carbonate

Aspiration Hazard (-)

No data available.

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

Aspiration Hazard (No data available)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Aspiration Hazard (No data available)

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

· Additional Information No further relevant information.

40 -				
	COLO	MICOL	Intorr	nation

Aquatic Environ	mental Toxicity
25068-38-6 Bispheno	ol-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 environmental hazard. Reference: Dow (M)SDS (2010) and CHRIP (2010).
1317-65-3 Calcium C	arbonate
Algae Toxicity (static)	56000 mg/l (Gambusia affinis (western mosquitofish)) (LC50 (24 - 96 hrs)) Reference: ACToR of CAS No. 471-34-1 (2010).
	(Poecilia Latipinna (Sailfin molly)) Exposure period: 96 hrs. NOEC > 200 mg/L Reference: IUCLID Dataset of CAS No. 471-34-1 (2000).
Crustacean Toxicity	(-) The substance is not toxic to aquatic organisms. Reference: Canada DSL of CAS No. 471-34-1 (2007).
Fish Toxicity	(-) The substance is not toxic to aquatic organisms. Reference: Canada DSL of CAS No. 471-34-1 (2007).
Micro-organism toxi	(-) The substance is not toxic to aquatic organisms. Reference: Canada DSL of CAS No. 471-34-1 (2007).
, ,	opanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
Algae Toxicity	(No data available)
Crustacean Toxicity	(No data available)
Fish Toxicity	(No data available)

(Contd. of page 12)



## Safety Data Sheet acc. to OSHA HCS

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67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica > 10000 mg/l (Scenedesmus subspicatus) (ErC50 (24 hrs), OECD 201) Crustacean Toxicity > 1000 mg/l (Daphnia magna (water flea)) (EC50 (24 hrs), OECD 202) Fish Toxicity > 10000 mg/l (Brachydanio rerio (Zebra fish)) (LC50 (96 hrs), OECD 203) Reference: Cabot (M)SDS (2012). · Aquatic Environmental Toxicity Assessment: Toxic to aquatic life with long lasting effects. Degradability and Stability 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin 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 Biodegradation (Indirect Analysis from BOD) = 0% Biodegradation (Direct Analysis from HPLC) = 0% The substance is non-biodegradable. Reference: Dow (M)SDS (2010) and CHRIP (2010). (Test species: n/a) (This substance is persistent) Persistence Reference: Canada DSL (2007) and CHRIP (2010). Photodegradation 6.69E-11 cm³/molecule-sec (OH radical) (Half-life (T1/2) = 1.92 hrs) However, photolysis in water is negligible. Reference: Dow (M)SDS (2010). Stability in water (No data available) 1317-65-3 Calcium Carbonate Biodegradation The test is not applicable since this substance is inorganic and not soluble in water. Reference: IUCLID Dataset of CAS No. 471-34-1 (2000). Photodegradation positive cm³/molecule-sec (-) The substance is persistent. Reference: ACToR of CAS No. 471-34-1 (2010). Stability in water No data available. 74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid non-biodegrad. (Test species: n/a) (Non-biodegradable due to persistent property) Biodegradation

Based on the persistent assessment according to Canada DSL, the substance is expected to be non-degradable in the

Persistence (Test species: n/a) (The substance is persistent)

Reference: Canada DSL (2007).

Photodegradation (No data available) Stability in water (No data available)

## 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Biodegradation (No data available)

Persistence (Test species: n/a) (The substance is not persistent)

Reference: Canada DSL (2007).

Photodegradation (No data available) Stability in water (No data available)

Koc

## Bioaccumulation and Distribution

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

0.56-42 (Cyprinus carpio) (The substance is low-bioaccumulative) BCF BCF (28 days; Concentration:  $10 \mu g/L$ ) = 0.56 - 0.67, 3.3 - 4.2

BCF (28 days; Concentration: 1 µg/L) = 5.6 - 6.8, 33 - 42

Reference: CHRIP (2010).

1800 - 4400 L/kg (soil)

Potential for mobility in soil is moderate.

Reference: Dow (M)SDS (2010).

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	(Contd. of page
LogPow	3.7 - 3.9 (Test species: n/a) Reference: Dow (M)SDS (2010).
1317-65-3 Calciu	m Carbonate
BCF	(-) No data available.
Environment fate	(-) No data available.
Кос	(-) No data available.
LogPow	(-) No data available.
74398-71-3 1, 2,	3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
BCF	(Test species: n/a) (The substance is not bioaccumulative) Reference: Canada DSL (2007).
Koc	(No data available)
LogPow	(No data available)
67762-90-7 Silox	anes and Silicones, di-Me, reaction products with silica
BCF	(No data available) (The substance is not bioaccumulative) Reference: Canada DSL CCR (2011).
Koc	(No data available)
LogPow	(No data available)
· Dogradah	ility and Rioaccumulation Assessment: Non-rapidly degradable and low bioaccumulative

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.

UN-Number	
DOT, ADR, IMDG, IATA	UN3082
UN Proper Shipping Name	
DOT, ADR, IMDĞ, IATA	Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A- (epichlorohydrin) epoxy resin)

<sup>·</sup> Additional Information No further relevant information.



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Transport hazard class(es)

DOT, IMDG, IATA



Class Label

9 Miscellaneous dangerous substances and articles

**ADR** 



Class Label

9 (M6) Miscellaneous dangerous substances and articles

Packing group

DOT, ADR, IMDG, IATA

Ш

**Environmental Hazards:** 

Marine Pollutant:

Symbol (fish and tree)

Special Marking (ADR):

Symbol (fish and tree)

Special Marking (IATA):

Symbol (fish and tree)

Special Precautions:

Warning: Miscellaneous dangerous substances and articles

Danger Code (Kemler): EMS Number:

90 F-A,S-F

Transport in Bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional Information:

· DOT

**Quantity limitations** 

On passenger aircraft/rail: No limit On cargo aircraft only: No limit

· Remarks:

Special marking with the symbol (fish and tree).

ADR

Excepted quantities (EQ)

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

· IMDG

Limited quantities (LQ) Excepted quantities (EQ)

5L

Code: E1

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

UN "Model Regulation":

UN3082, Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-

(epichlorohydrin) epoxy resin), 9, III



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A, C 50-60%

A, C 10-20%

## 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 1317-65-3 Calcium Carbonate

 74398-71-3
 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid
 A, C
 10-20%

 1333-86-4
 Carbon black
 A, C
 0.1-<1%</td>

## 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)

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

1317-65-3 Calcium Carbonate

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

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

1333-86-4 Carbon black

14808-60-7 Quartz

## Proposition 65

## Chemicals Known to Cause Cancer

This product may also contain extremely small amounts of one or more naturally occurring materials known to the State of California to cause cancer, birth defects or other reproductive harm.

1333-86-4 Carbon black

14808-60-7 Quartz

## 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

None of the ingredients is listed.

## Carcinogenic Categories

## EPA (Environmental Protection Agency)

None of the ingredients is listed.

## IARC (International Agency for Research on Cancer)

14808-60-7 Quartz

Quartz

## NTP (National Toxicology Program)

14808-60-7 Quartz

K

TLV (Threshold Limit Value Established by ACGIH)

1333-86-4 Carbon black 14808-60-7 Quartz

A4 A2

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		(Contd. of pa
	NIOSH-Ca (National Institute for Occupational Safety and Health)	
14808-60-7	Quartz	
Intern	ational Regulation Lists	
· Cai	nadian Domestic Substance Listings:	
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	
	Calcium Carbonate	
74398-71-3	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	
	Siloxanes and Silicones, di-Me, reaction products with silica	
1333-86-4	Carbon black	
14808-60-7	Quartz	
· Cai	nadian Ingredient Disclosure list (limit 0.1%)	
None of the	ingredients is listed.	
· Cai	nadian Ingredient Disclosure list (limit 1%)	
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
	Chinese Chemical Inventory of Existing Chemical Substances:	
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	
	Calcium Carbonate	
74398-71-3	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
1333-86-4	Carbon black	
14808-60-7	Quartz	
٠,	Japanese Existing and New Chemical Substance List:	
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	
1317-65-3	Calcium Carbonate	
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
1333-86-4	Carbon black	
14808-60-7	Quartz	
•	Korean Existing Chemical Inventory:	
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	
1317-65-3	Calcium Carbonate	
74398-71-3	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
1333-86-4	Carbon black	
14808-60-7	Quartz	
•	European Pre-registered substances:	
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	
1317-65-3	Calcium Carbonate	
74398-71-3	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	
1333-86-4	Carbon black	
14808-60-7	Quartz	
	REACh - Substances of Very High Concern (SVHC) List:	
	ingredients is listed.	
	Restriction of Hazardous Substances Directive (RoHS) list:	





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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

ESIS: European Chemical Substances Information System

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

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