

Safety Data Sheet acc. to OSHA HCS

Print Date 05/19/2015

Revision Date 05/19/2015

Product Identifier

- **Trade Name:** *EP1305 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



GHS09 Environment

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



GHS07

*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 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.
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)


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

HMIS System
HMIS Ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	1	Fire = 1
REACTIVITY	0	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/Information on Ingredients

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	70-80%
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%

Classification System:

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

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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.
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.

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*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:

Phenolic compounds

Noxious fumes.

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

Carbon dioxide (CO₂) and Carbon monoxide (CO)

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.

Keep away from heat, sparks, open flame and other ignition sources during handling.

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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

Exposure Limit Values that Require Monitoring at the Workplace

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

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



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

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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:	Not determined.
Boiling Point:	>200 °C (>392 °F)
Flash Point:	>200 °C (>392 °F)
Decomposition 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):	1.17 g/cm ³ (9.764 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):	140000 mPas
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 Stable under normal conditions of use, storage and temperatures.

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Thermal Decomposition and Conditions to be Avoided

Keep away from incompatible material(s).

Take precautionary measures to avoid static electricity/discharge. Metal parts of mixing equipment need grounding. 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.

Additional Information No further 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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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).
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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. Reference: Royce (M)SDS (2011) and ChemID (2010).
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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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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.
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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)
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74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Inhalative	LC50/4 h	(No data available)
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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.
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Potential Health Effect(s):

Not a classified acute inhalative hazard.
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).
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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).
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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.
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74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

Damage/Irritation	(No data available)	
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67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Damage/Irritation	slightly irri. (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 2B). Reference: ACToR (2011) and Cabot (M)SDS (2012).
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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)

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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)

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

Mutagenicity	(No data available)
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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).
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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).
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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)
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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)
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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)
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67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Reproductive Toxi.	(No data available)
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Potential Health Effect(s): Not a known Reproductive hazard.

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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).

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

STOT-Single

(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 seromuroid concentrations, decreased lactate-dehydrogenase (LDH), and decreased leucyl/naphthylamidase (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)

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)

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.

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: Dow (M)SDS (2010) and 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)

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

Algae Toxicity

> 10000 mg/l (Scenedesmus subspicatus) (ErC50 (24 hrs), OECD 201)

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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

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: Dow (M)SDS (2010) and CHRIP (2010).
Persistence	(Test species: n/a) (This substance is persistent) Reference: Canada DSL (2007) and CHRIP (2010).
Photodegradation	6.69E-11 cm ³ /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)

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)

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)

Bioaccumulation and Distribution

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

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).
Koc	1800 - 4400 L/kg (soil) Potential for mobility in soil is moderate. Reference: Dow (M)SDS (2010).
LogPow	3.7 - 3.9 (Test species: n/a) Reference: Dow (M)SDS (2010).

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 Siloxanes 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)

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

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

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

 · **UN-Number**

 · **DOT, ADR, IMDG, IATA** UN3082

 · **UN Proper Shipping Name**

 · **DOT, ADR, IMDG, IATA** Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-(epichlorohydrin) epoxy resin)

 · **Transport hazard class(es)**

 · **DOT, IMDG, IATA**

 · **Class**
 · **Label**

 9 Miscellaneous dangerous substances and articles
 9

 · **ADR**

 · **Class**
 · **Label**

 9 (M6) Miscellaneous dangerous substances and articles
 9

 · **Packing group**

 · **DOT, ADR, IMDG, IATA** III

 · **Environmental Hazards:**

 · **Marine Pollutant:** Yes
 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):** 90

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EMS Number:	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)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	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

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	70-80%
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%
2530-83-8	Glycidylxypropyltrimethoxysilane	A, C	0.1-<1%

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		
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		
2530-83-8	Glycidylxypropyltrimethoxysilane		

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Proposition 65
Chemicals Known to Cause Cancer

1333-86-4 Carbon black

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

67-56-1 Methanol

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)

1333-86-4 Carbon black

A4

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

None of the ingredients is listed.

International Regulation Lists
Canadian Domestic Substance Listings:

25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
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
2530-83-8	Glycidylxypropyltrimethoxysilane

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian 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
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
2530-83-8	Glycidylxypropyltrimethoxysilane

Japanese Existing and New Chemical Substance List:

25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
1333-86-4	Carbon black
2530-83-8	Glycidylxypropyltrimethoxysilane

Korean Existing Chemical Inventory:

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

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2530-83-8 Glycidylxypropyltrimethoxysilane

European Pre-registered substances:

25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
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
2530-83-8	Glycidylxypropyltrimethoxysilane

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.

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
 ESIS: European Chemical Substances Information System
 HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System
 HSDB: US NLM TOXNET Hazardous Substances Databank
 HSNOC: 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)
 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
 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

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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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