

acc. to OSHA HCS

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Product Identifier Trade Name: <u>EP1215 BLACK A</u> 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

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GHS09 Environment

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

GHS07

Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2AH319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.

Label Elements

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



[·] Signal Word Warning

- Hazard-determining Component(s)
- Bisphenol-A-(epichlorohydrin) epoxy resin

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. If eye irritation persists: Get medical advice/attention.



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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.

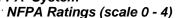
Prevention

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.

Hazard Rating System NFPA System



Health = 2 Fire = 1 Reactivity = 0

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

HMIS System

HMIS Ratings (scale 0 - 4)

HEALTH2FIRE1FIRE1FIRE1Reactivity0

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

 CAS: 25068-38-6
 Bisphenol-A-(epichlorohydrin) epoxy resin
 90-100%

 NLP: 500-033-5
 Aquatic Chronic 2, H411
 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317
 90-100%

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.

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After Skin Contact

Remove all contaminated clothing and wash before reuse. Wash contaminated skin with water and soap and rinse thoroughly. As quickly as possible remove contaminated clothing, shoes, and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Immediately flush with lukewarm water for 15 minutes. Completely decontaminate clothing, shoes, and leather goods before reuse or discard. If irritation persists, obtain medical advice.

After Eye Contact

Immediately bathe eyes for 15 minutes under running water. Immediately remove contact lenses if present. Continue rinsing. Seek medical treatment in case of complaints.

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.

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.

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

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. 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 Carbon dioxide (CO₂) 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.



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

6 Accidental release measures

Personal Precautions

Avoid contact with skin, eyes, and clothing. 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. Absorb spills with inert materials like sand and or vermiculite. Absorb residues with liquid-binding materials. 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

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.

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8 Exposure controls/personal protection

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Information on Basic Physica	l and Chemical Properties	
Appearance:	, the second	
Form:	Liquid	
Color:	Black	
[·] Odor:	Mild epoxy odor	
Odor Threshold:	Not determined.	



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(Contd. of page 5) 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. Flammability: Not determined. Explosion: Not determined. **Explosion Limits:** Lower: Not determined. · Upper: Not determined. Vapor Pressure: Not determined. Density at 25 °C (77 °F): 1.16 g/cm3 (9.68 lbs/gal) Solubility in or Miscibility with Water: Not miscible or difficult to mix. Henry's Law Constant: Not determined Viscosity: Dynamic at 20 °C (68 °F): 14000 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.

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.

Mercaptans 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.

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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).	
• 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 post information	sible without further
information. Reference: Royce (M)SDS (2011) and ChemID (2010).	
• 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)	
• 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).	n.
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.	
Potential Health Effect(s):	
Causes serious eve 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 pig the substance as a dermal sensitizer. Reference: GHS-J (2006).	gs, GHS-J classified
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.	(Opental and a second
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[·] Germ Ce	ell Mutagenicity
25068-38-6 Bisphe	enol-A-(epichlorohydrin) epoxy resin
In Vit with I Posit a cor	ve (Chinese hamster lung fibroblast cells) (In Vitro (Chromosomal Aberration)) ro (Chromosomal Aberration; Chinese hamster lung fibroblast cells) - Positive without metabolic activation; nega netabolic activation. ive (salmonella typhimurium) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to ma clusion of mutagenicity of the substance. rence: NLM CCRIS (2010).
Poter	tial Health Effect(s): No further relevant information; classification is not possible.
[·] Carcino	genicity
25068-38-6 Bisphe	enol-A-(epichlorohydrin) epoxy resin
(N 1 c co ca	gative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA) louse) but of 4 cases with female mice showed positive carcinogenic results after a repeated dermal application with 1 ncentration of the substance for two years. When considering all of the evidence, the substance was not classified a rcinogen. iference: Dow (M)SDS (2010).
	tial Health Effect(s): Not a known Carcinogen.
	ictive Toxicity
•	enol-A-(epichlorohydrin) epoxy resin
,	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).
	ntial Health Effect(s): Not a known Reproductive hazard.
•	Target Organ Toxicity - Single Exposure
	enol-A-(epichlorohydrin) epoxy resin
Som rats, Refe	et: None (Rats and Mice) (No effect after single oral doses) nolence (general depressed activity) and dyspnea were observed after a single oral application with 11400 mg/kg or 15600 mg/kg to mice of the substance. However, the dose levels were both outside of the guidance value ranges. rence: NLM Toxnet (2010).
⁻ Poter	ntial Health Effect(s): Not a known hazard to organs upon single exposure.
Specific	Target Organ Toxicity - Repeated Exposure
25068-38-6 Bisphe	enol-A-(epichlorohydrin) epoxy resin
V d s H	arget: N/A (guinea pig) (insufficient data for classification) /ith dermal application of the substance for 55 days, increased seromucoid concentrations, decreased lacta ehydrogenase (LDH), and decreased leucylnaphthylamidase (LNA) were observed in the test animals. Meanwhile, ubstance caused a toxic effect on blood components of female guinea-pigs with greater effects on pregnant anima owever, there was no detail available regarding the dose level or test guideline, classification was thus not possible. efference: HSNO CCID (2010).
Poter	ntial Health Effect(s): No further relevant information; classification is not possible.
Aspirati	on Hazard
25068-38-6 Bisphe	enol-A-(epichlorohydrin) epoxy resin
Aspiration Hazard	(No data available)
Poter	ntial Health Effect(s): No relevant information; classification is not possible.
	Information No further relevant information.

12 Ecological information

Aquatic Environmental Toxicity

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

(No data available) Algae Toxicity

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	,	/ 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).
•	Aquatic	Environmental Toxicity Assessment: Toxic to aquatic life with long lasting effects.
		ty and Stability
25068-3	8-6 Bisphe	nol-A-(epichlorohydrin) epoxy resin
Biodegra	dation I	non-biodegrad. (Test species: n/a) (Biodegradation (OECD TG 302B; 28 days) = 12%)
		(Activated Sludge) (OECD TG 301C; 4 weeks; Conc. 100 mg/L)
	1	Biodegradation (Indirect Analysis from BOD) = 0%
	1	Biodegradation (Direct Analysis from HPLC) = 0%
		The substance is non-biodegradable.
	I	Reference: Dow (M)SDS (2010) and CHRIP (2010).
Persister	nce	(Test species: n/a) (This substance is persistent)
	1	Reference: Canada DSL (2007) and CHRIP (2010).
Photode	gradation (6.69E-11 cm³/molecule-sec (OH radical) (Half-life (T1/2) = 1.92 hrs)
		However, photolysis in water is negligible.
	1	Reference: Dow (M)SDS (2010).
Stability	in water	(No data available)
Bio	accumu	lation and Distribution
25068-3	8-6 Bisphe	nol-A-(epichlorohydrin) epoxy resin
BCF	0.56-42 (C	Cyprinus carpio) (The substance is low-bioaccumulative)
BCF	BCF (28 d	lays; Concentration: 10 μg/L) = 0.56 - 0.67, 3.3 - 4.2
		lays; Concentration: 1 μg/L) = 5.6 - 6.8, 33 - 42
	Reference	e: CHRIP (2010).
Koc 1800 - 44		00 L/kg (soil)
		or mobility in soil is moderate.
		e: Dow (M)SDS (2010).
LogPow 3.7 - 3.9 (Test species: n/a)
		:: Dow (M)SDS (2010).

· 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

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UN Proper Shipping Name DOT, ADR, IMDG, IATA	Environmentally hazardous substances, liquid, n.o.s. (Bisphenol (epichlorohydrin) epoxy resin)
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
[·] Label	9
ADR	
Class	9 (M6) Miscellaneous dangerous substances and articles
Label	9
Packing group DOT, ADR, IMDG, IATA	111
Environmental Hazards: Marine Pollutant:	Yes
Special Marking (ADR):	Symbol (fish and tree)
Special Marking (ADA):	Symbol (fish and tree) Symbol (fish and tree)
Special Precautions:	Warning: Miscellaneous dangerous substances and articles
Danger Code (Kemler):	90
· 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
Remarks:	On cargo aircraft only: No limit 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



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UN "Model Regulation":

UN3082, Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-(epichlorohydrin) epoxy resin), 9, III

15 Regulatory information

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-(epichlorohydpin) epoxy resin A. C [90-100 1333-86-4 [Carbon black (Wetted form) A. C [90-100 + Hazard Abbreviations for SARA 311/312 A. C [90-100 - A caute Health Hazard F. Fire Hazard - F. Fire Hazard R. Feactive Hazard - S. Sudden Release of Pressure Hazard S. Sudden Release of Pressure Hazard - S. Sudden Release of Pressure Hazard S. Sudden Release of Pressure Hazard - R. Feactive Hazard S. Sudden Release of Pressure Hazard - 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 Developmental Toxicity None of the ingredients is listed. Carcinogenic Categories - 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. IARC (International Agency for Research on Cancer) None of the ingredient	Section 302 (Extremely Hazardous Substances)	
None of the ingredients is listed. Section 311/312 (Hazardous Chemical Inventory Reporting) 25088-38-6 [Bisphenol-A-(epichlorohydrin) epoxy resin A, C 90-100 1333-86-4 [Carbon black (Wetted form) A, C 0.1- 133-86-4 [Carbon black (Wetted form) A, C 0.1- - C - Chronic Health Hazard C - Orhoric Health Hazard F - Fire Hazard F - Fire Hazard S - Sudden Release of Pressure Hazard S - S Forden Release of Pressure Hazard S - 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 Developmental Toxicity None of the ingredients is listed. • Carcinogenic Categories • EPA (Environmental Protection Agency) None of the ingredients is listed.		
None of the ingredients is listed. • Section 311/312 (Hazardous Chemical Inventory Reporting) 25068-38-6 [Bisphenol-A-(epichlorohydrin) epoxy resin A, C 90-100 1333-86-4 Carbon black (Wetted form) A, C 0.1- A - Acute Health Hazard C 0.1- C - Chronic Health Hazard F. Fire Hazard A, C F. Fire Hazard F. Fire Hazard F. Fire Hazard S - Sudden Release of Pressure Hazard S S • TSCA (Toxic Substances Control Act) All ingredients are listed. S • 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 Developmental Toxicity None of the ingredients is listed. • Chemicals Known to Cause Developmental Toxicity None of the ingredients is li	Section 313 (Toxics Release Inventory (TRI) reporting)	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin A. C 90-100 1333-86-4 Carbon black (Wetted form) A. C 0.1-<1 Hazard Abbreviations for SARA 311/312 A - Acute Health Hazard C 0.1-<1 C - Chronic Health Hazard C C-Inronic Health Hazard F - Fire Hazard S S S - Sudden Release of Pressure Hazard S S S - Sudden Release of Pressure Hazard S S Proposition 65 Chemicals Known to Cause Cancer 106-89-8 106-89-8 1-chloro-2,3-epoxypropane S C Chemicals Known to Cause Reproductive Toxicity for Females None of the Ingredients is listed. C Chemicals Known to Cause Reproductive Toxicity for Males 106-89-8 106-89-8 1-chloro-2, 3-epoxypropane S C Chemicals Known to Cause Developmental Toxicity None of the Ingredients is listed. Carconogenic Categories EPA (Environmental Protection Agency) None of the Ingredients is listed. IARC (International Agency for Research on Cancer) None of the Ingredients is listed. IARC (International Agency for gram) None of the Ingredients is listed. IARC (Internat		
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	International Regulation Lists	

(Contd. on page 12)



acc. to OSHA HCS

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USA

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.

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 acronvms: 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 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 NLM TOXNET: US National Library of Medicine Toxicology Data Network NITE: National Institute of Technology and Evaluation, Japan OECD: Organisation for Economic Co-operation and Development OSHA: US Occupational Safety and Health Administration (Contd. on page 13)



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(Contd. of page 12) 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 ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH Date of preparation / last revision 02/17/2015/3 USA