

acc. to OSHA HCS

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Product Identifier Trade Name: <u>EP1290 GRAY 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

GHS09 Environment

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)**



[·] Signal Word Warning

- Hazard-determining Component(s)
- Bisphenol-A-(epichlorohydrin) epoxy resin Polymer of Epoxy resin and Bisphenol-A

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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(Contd. of page 1) 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 Health = 2 FIRE Fire = 1 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/Infor	nation on Ingredients	
CAS: 25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	60-70%
NLP: 500-033-5	🚯 Aquatic Chronic 2, H411	
Index Number: 603-074-00-8	🚯 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 25036-25-3	Polymer of Epoxy resin and Bisphenol-A	5-<10%
EC number: 607-500-3	🚯 Skin Sens. 1, H317	
Cleasification Curat		

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.

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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 (CO_2). 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) Silicon oxide (SiO₂) Titanium oxides Aluminum oxide (Al₂O₃) dust, a serious respiratory irritant, may be formed during fires.

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Iron oxides

Advice for Firefighters

If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).

As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

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

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. 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.

[•] 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.

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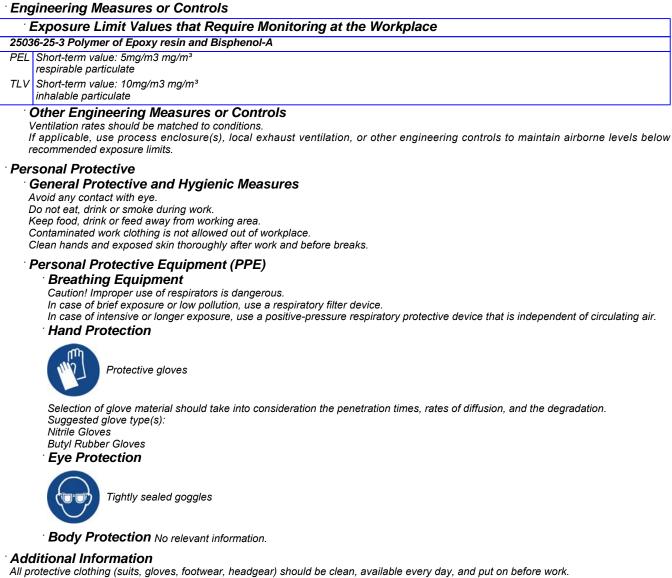
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Additional Information No further relevant information.

8 Exposure controls/personal protection



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.

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[·] Information on Basic Physical ar	nd Chemical Properties	
Appearance:		
Form:	Paste	
Color:	Cream	
Odor:	Mild epoxy odor	
Odor Threshold:	Not determined.	
PH-Value:	Not determined.	
• Change in Condition:		
[•] Melting Point:	Not determined.	
[•] Boiling Point:	> 260 °C (> 500 °F)	
Flash Point:	>113 °C (>235 °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):	1.37 g/cm³ (11.433 lbs/gal)	
Solubility in or Miscibility with	h	
Water:	Not miscible or difficult to mix.	
· Viscosity:		
[·] Dynamic at 20 °C (68 °F):	110000 mPas	
· Kinematic:	Not determined.	

10 Stability and reactivity

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

* Hazardous Reactivity and Chemical Stability Stable under normal conditions of use, storage and temperatures.

Thermal Decomposition and Conditions to be Avoided

Keep away from incompatible material(s).

Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.

Possibility of Other Hazardous Reaction(s) No further relevant information available.

Incompatible Material(s) Mercaptans Amines. Oxidizing agents, Acids, Bases

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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Acu	te To	xicity
	Dral	
		Bisphenol-A-(epichlorohydrin) epoxy resin
		11400 mg/kg (rat)
	:	15600 mg/kg (mouse)
		Reference: NLM Toxnet (2010).
		Calcined Kaolin
Oral	(> 5000 mg/kg (rat) (EPA OPP81-1; Read-across from supporting substance (structural analogue or surrogate; no identification available)) All animals survived, and appeared active and healthy after a single oral administration of 5000 mg/kg bw of the substance. Reference: ECHA (2011).
		Polymer of Epoxy resin and Bisphenol-A
Oral		11400 mg/kg (rat) (Read across from CAS <u>25068-38-6)</u>
		> 2000 mg/kg (rat)
		Reference: ChemID (2010) and Dow (M)SDS (2003).
		ential Health Effect(s): Not a classified acute oral hazard.
· D)erma	1
		Bisphenol-A-(epichlorohydrin) epoxy resin
Derm	al LD5	0 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 furth
		information.
		Reference: Royce (M)SDS (2011) and ChemID (2010).
		Calcined Kaolin 0 > 5000 mg/kg (rat)
		(EPA OPP81-2; semiocclusive; Read-across from supporting substance (structural analogue or surrogate; no identificati available)) All animals survived, gained weight, and appeared active and healthy after a single dermal administration with 5000 mg/ bw of the test substance. Reference: ECHA (2011).
25030	6-25-3	Polymer of Epoxy resin and Bisphenol-A
		0 20000 mg/kg (rabbit) (Read across from CAS 25068-38-6) Reference: NLM Toxnet (2010) and Royce (M)SDS (2012).
	Pot	ential Health Effect(s): Not a classified acute dermal hazard.
· Iı	nhala	
		Bisphenol-A-(epichlorohydrin) epoxy resin
		C50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data)
		Calcined Kaolin
Inhala	ative L	C50/4 h (Test species: n/a)
		Due to the wetted form, inhalative effects of the substance can be seen as negligible
		Polymer of Epoxy resin and Bisphenol-A
Inhala	ative L	C50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data)
	Pot	ential Health Effect(s): Not a classified acute inhalative hazard.
S		orrosion or Irritation
		Bisphenol-A-(epichlorohydrin) epoxy resin
		itation irritating (rabbit)
20/10		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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92704-11 Calcined Kaolin Corrosion/Initiation (Corrosion/Initiation (Corrosion/Initiation (Corrosion/Initiation (Corrosion/Initiation (Corrosion/Initiation (Corrosion/Initiation (Corrosion/Initiation (No data available) (Corrosion/Initiation (No data available) (Corrosion/Initiation) (No data available) Potential Health Effect(s): Causes skin Initiation (In contact with skin, may cause: redness and pain (Eps Serious Damage or Initiation (Eps Serious Damage or Initiation (Corrosion/Initiation) (In contact with skin, may cause: redness and pain (Corrosion/Initiation) (Initiation)	Contd. of page
(OECD TG 404; semiocclusive; Read-across from supporting substance (structural analogue or suidentification available) Experiment 2503-253 Poymer of Epoxy resin and Bisphenol-A Corrosion/Initiation (No data available) 2503-253 Poymer of Epoxy resin and Bisphenol-A Corrosion/Initiation (No data available) 2503-253 Poymer of Epoxy resin and Bisphenol-A Corrosion/Initiation (No data available) 2503-253 Poymer of Epoxy resin and Bisphenol-A Corrosion/Initiation 1n contact with skin, may cause: redness and pain 2508-33-6 Bisphenol-A-(epichlorohydrin) epoxy resin Damage/initiation Interminent (rabit) The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. 2504-13 Calined Kaoin Damage/initiation Carbiti (EPA OPPTS 870,2400: 0.1 mL neat substance; Read-across from supporting substance (structural a substance avaits and bing) Conjunctiva: 0.333 (Max. 3: 1 out 03 rabbits; Time point: 24 rbs; Fully reversible in 48hrs Conjunctiva: 0.4333 (Max. 3: 1 out 03 rabbits; Time point: 24 rbs; Fully reversible in 48hrs Conjunctiva: 0.4333 (Max. 3: 1 out 03 rabbits; Time point: 24 rbs; Fully reversible in 48hrs <t< th=""><th></th></t<>	
25036-25-3 Polymer of Epoxy resin and Bisphenol-A Corrosion/initiation [No data available] Potential Health Effect(s): Causes skin irritation in contact with skin, may cause: redness and pain 25068-36-8 Eisphenol-A-(epichtorohydrin) epoxy resin Damage/Irritation [rritating (rabbit]] The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. 25068-36-8 Eisphenol-A-(epichtorohydrin) epoxy resin Damage/Irritation [ritating (rabbit]] The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. 25068-36-8 Eisphenol-A-(epichtorohydrin) epoxy resin Damage/Irritation [ritation [Cabot]] (EPA OPPTS 870.2400; 0.1 mL neat substance; Read-across from supporting substance (structural a surgate; no identification available)] Conjunctiva: 0.339 (Max. 3; 1 out of 3 rabbits; Time point: 24+48+72hrs; mean score of 3 rabbits; Conjunctiva: 0.339 (Max. 3; 1 out of 3 rabbits; Time point: 24+48+72hrs; Time point: 24+48+72hrs; mean score of 3 rabbits; Conjunctiva: 0.339 (Max. 3; 1 out of 3 rabbits; Time point: 24+48+72hrs; Time point: 24+48+	surrogate; i
Corrosion/Irritation [No data available] Potential Health Effect(s): Causes skin irritation. In contact with skin, may cause: redness and pain Eye Serious Damage or Irritation 2506-33-6 Bisphenol-A-(epichlorohydrin) epoxy resin Damage/Irritation 2506-33-6 Bisphenol-A-(epichlorohydrin) epoxy resin Damage/Irritation 2504-41-1 Cakined Kaolin 2014-11 Cakined Kaolin 2014-11 Cakined Kaolin 2014-11 Cakined Kaolin Conjunctiva: 0.1000 (rabbit) Corring (rabbit) Conjunctiva: 0.1000 (rabbit) Conjunctiva: 0.1000 (rabbit) Conjunctiva: 0.1000 (rabbit); Time point: 24+48+72hrs; the point: 24+48+72hrs] Thus, the substance was not irritating to rabbit symp point: 24+48+72hrs] Thus, the substance was not irritating to rabbit symp point: 24+48+72hrs] Thus, the substance was not irritating to rabbit symp point: 24+48+72hrs] Thus, the substance was not irritating to rabbit symp point: 24+48+72hrs] Thus, the substance was not irritating to rabbit symp point: 24+48+72hrs] Conjunctiva: 0 (Max 3: 1 out of 3 rabbits; Time point:	
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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 irritatiing (rabbit) The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. 92704-41-1 Calcined Kaolin Damage/Irritation (rabbit) (EPA OPPTS 870,2400; 0.1 mL neat substance; Read-across from supporting substance (structural a surrogate; no identification available)) Corinea, iris, and chemosis: 0 (Time point: 24+48+72hrs; mean score of 3 rabbits) Conjunctiva: 0.337 (Max. 3; 1 out of 3 rabbits; Time point: 24+48+72hrs) Thus, the substance was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 7 Double was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 7 Double was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 7 Double was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 7 Double was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 7 Double was not irritation to the classification criteria. 8 Reference: ECHA (2011). 7 Respiratory or Skin Sensitization 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Sensitization Skin sensitization 9 Sensitizer (No data available) 9 2704-41-1 Calcined Kaolin Sensitization Skin of sensitizing (fluman) Sensitization Skin of sensitizing (fluman) Sensitization Skin not sensitizing (nouse) (OECD TG 429; Read-across from 1335-30-4) None of the measured parameters reached or exceeded the positive levels that can define sense comparing the treated animals with the control groups. Reference: ECHA (2011). 8 Respiratory (Test species: n/a) Due to the wetted form, inhalative effects of the substance can be seen as negligible. 25036-25-3 Polymer of Epoxy resin and Bisphenol-A Bensitization Skin sensitizing (guinea pig) 8 B	
Eye Serious Damage or Irritation 2508-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Damage/Irritation The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. 92704-41-1 Calcined Kaolin Demage/Irritation (EPA OPPTS 870.2400; 0.1 mL neat substance; Read-across from supporting substance (structural a surrogate; no identification available)) Conjunctiva: 0.333 (Max. 3; 1 out of 3 rabbits; Time point: 24+48+72hrs; mean score of 3 rabbits) Conjunctiva: 0.333 (Max. 3; 2 out of 3 rabbits; Time point: 24+48+72hrs; Conjunctiva: 0.333 (Max. 3; 2 out of 3 rabbits; Time point: 24+48+72hrs) Thus, the substance was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 25036-25-3 Polymer of Epoxy resin and Bisphenol-A Damage/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 the substance as a dermal sensitizer. Reference: ECHA (2011). Reference: CHS-J (2006). Retere	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Damage/Initiation [rititating (rabbit)] The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. 92704-41-1 Calcined Kaolin Damage/Initiation [rabbit] (EPA OPPTS 870.2400; 0.1 mL neat substance; Read-across from supporting substance (structural a surrogate; no identification available)) Cornea, iris, and chemosis: 0 (Time point: 24+48+72hrs; mean score of 3 rabbits; Conjunctiva: 0.333 (Max. 3; 1 out of 3 rabbits; Time point: 24+88+72hrs) Thus, the substance was not initiating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 25036-25-3 Polymer of Epoxy resin and Bisphenol-A Damage/Initiation [No data available] • Potential Health Effect(s): Causes serious eye irritation. In contact with eye, may cause: redness and pain • Respiratory or Skin Sensitization Stan Sensitization Skin Sensitization Skin Respiratory (No data available) • Potential Health Effect(s): Causes serious eye initation. In contact with eye, may cause: redness and pain • Respiratory (No data available) <t< td=""><td></td></t<>	
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The substance caused eye irritation (Category 2A) based on the dermal effect to rabbit skin. 92704-41-1 Calcimed Kaolin Damage/Irritation (rabbit) (EPA OPPTS 870.2400; 0.1 mL neat substance; Read-across from supporting substance (structural a surrogate; no identification available)) Conjunctiva: 0.33/3 (Max. 3; 1 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.33/3 (Max. 3; 2 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.33/3 (Max. 3; 2 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.40x. 3; 2 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.40x. 3; 2 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.40x. 3; 2 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.40x. 3; 2 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.40x. 3; 2 out of 3 rabbits; Time point: 24 hrs); huly reversible in 48hrs Conjunctiva: 0.40x. 3; 2 out of 3 rabbits; Time point: 24 hrs); Zeauses serious eye irritation Vin Contact with eye, may cause: rederence: ECHA (2011). Sensitization Skin Sensitization Skin Sensitization Skin Sensitization Skin Respiratory	
Damage/Irritation (rabbit) (EPA OPPTS 870.2400; 0.1 mL neat substance; Read-across from supporting substance (structural a surgate; no identification available)) Cornea, iris, and chemosis: 0 (Time point: 24+48+72hrs; mean score of 3 rabbits) Conjunctiva: 0.333 (Max. 3; 1 out of 3 rabbits; Time point: 24+48+72hrs; Thus, the substance was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 25036-25-3 Polymer of Epoxy resin and Bisphenol-A Damage/Irritation (No data available) Potential Health Effect(s): Causes serious eye irritation. In contact with eye, may cause: redness and pain Respiratory or Skin Sensitization 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Sensitization Skin sensitizing (Human) Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS the substance as a dermal sensitizer. Reference: CH3-J (2006). Respiratory Respiratory (No data available) 92704-41-1 Calcined Kaolin None of the measured parameters reached or exceeded the positive levels that can define sem comparing the treated animals with the control groups. Reference: ECH4 (2011). Reference: ECH4 (2011).	
(EPA OPPTS 870.2400; 0.1 mL neat substance; Read-across from supporting substance (structural a surrogate; no identification available)) Cornea, iris, and chemosis: 0 (Time point: 24+48+72hrs; mean score of 3 rabbits) Conjunctiva: 0.333 (Max. 3; 1 out of 3 rabbits; Time point: 24+48+72hrs; Conjunctiva: 0.40% a. 3; 2 out of 3 rabbits; Time point: 24+48+72hrs) Thus, the substance was not irritating to rabbit eyes based on the classification criteria. Reference: ECHA (2011). 25036-25-3 Polymer of Epoxy resin and Bisphenol-A Damage/Irritation (No data available) Potential Health Effect(s): Causes serious eye irritation. In contact with eye, may cause: redness and pain Respiratory or Skin Sensitization 25068-38-6 Bisphenol-A (epichlorohydrin) epoxy resin Sensitization Skin sensitizing (Human) Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS the substance as a dermal sensitizer. Reference: GHS-J (2006). Respiratory (No data available) 92704-41-1 Calcined Kaolin Skin Sensitization Skin Reference: GHS-J (2006). Respiratory (No data available) 92704-41-1 Calcined Kaolin	
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Damage/Irritation (No data available) Potential Health Effect(s): Causes serious eye irritation. In contact with eye, may cause: redness and pain Respiratory or Skin Sensitization 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Sensitization Skin sensitizing (Human) Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS the substance as a dermal sensitizer. Reference: GHS-J (2006). gespiratory (No data available) 92704-41-1 Calcined Kaolin not sensitizing (mouse) (OECD TG 429; Read-across from 1335-30-4) None of the measured parameters reached or exceeded the positive levels that can define sens comparing the treated animals with the control groups. Reference: ECHA (2011). Respiratory (Test species: n/a) Due to the wetted form, inhalative effects of the substance can be seen as negligible. 25036-25-3 Polymer of Epoxy resin and Bisphenol-A Sensitization Skin sensitizing (guinea pig) Based on the manufacture's (M)SDS, the substance is sensitizing to pig skin. (Read across from CAS 25068-38-6) Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS	
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Based on the manufacture's (M)SDS, the substance is sensitizing to pig skin. (Read across from CAS <u>25068-38-6)</u> Based on positive results from skin sensitization tests on human volunteers and guinea pigs, GHS	
Reference: Dow(M)SDS (2003) and GHS-J (2006).	HS-J classifi
Respiratory (No data available)	
Potential Health Effect(s):	
May cause an allergic skin reaction. No relevant information for respiratory sensitization; classification is not possible.	ontd. on page



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	A-Ca (Occupational Safety & Health Administration) gredients is listed.
	ell Mutagenicity
	isphenol-A-(epichlorohydrin) epoxy resin
	positive (Chinese hamster lung fibroblast cells) (In Vitro (Chromosomal Aberration)) In Vitro (Chromosomal Aberration; Chinese hamster lung fibroblast cells) - Positive without metabolic activation; negat with metabolic activation. Positive (salmonella typhimurium) (In Vitro (Ames assay)). Due to the absence from In Vivo tests, it was not possible to ma a conclusion of mutagenicity of the substance. Reference: NLM CCRIS (2010).
92704-41-1 C	alcined Kaolin
	(Test species listed below) (Read-across from supporting substance (structural analogue or surrogate; no identification available)) In Vitro (bacterial reverse mutation assay; TA97a, TA98, TA100, TA102, TA1535 Salmonella typhimurium; OECD TG 47 negative with and without metabolic activation In Vitro (mammalian chromosome aberration test; human embryonic lung cultures) - negative without metabolic activation In Vitro (mammalian chromosome aberration test; human embryonic lung cultures) - negative without metabolic activation In Vitro (mammalian cell gene mutation assay; CHO-K1-BH4 (Chinese Hamster Ovary); OECD TG 476) - negative with a without metabolic activation In Vitro (nomosome aberration assay; rat; oral with up to 425 mg/kg bw; OECD TG 475) - negative; no detectal significant aberration of the bone marrow metaphase chromosomes was observed. Thus, the substance can be considered as non-mutagenic. Reference: ECHA (2011).
25036-25-3 P	olymer of Epoxy resin and Bisphenol-A
Mutagenicity	(No data available)
	ntial Health Effect(s): No further relevant information; classification is not possible.
	genicity
	sphenol-A-(epichlorohydrin) epoxy resin
Carcinogenicit	 y 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 a concentration.
	carcinogen. Reference: Dow (M)SDS (2010).
92704-41-1 C	alcined Kaolin
Carcinogenicit	 (rat) (Read-across from supporting substance (structural analogue or surrogate; no identification available)) NOAEL (Oral; OECD TG 453; 103 weeks; both males and females) = 1760 mg/kg bw/day: there was no adverse eff regarding carcinogenicity observed during the 103-week oral study. Thus, the substance was not classified as carcinogen. Reference: ECHA (2011).
25036-25-3 P	Diymer of Epoxy resin and Bisphenol-A
	y negative (Test species: n/a) (Not listed by ACGIH, IARC, NTP, or OSHA)
	ntial Health Effect(s): Not a known Carcinogen.
	uctive Toxicity
	isphenol-A-(epichlorohydrin) epoxy resin
	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).
92704-41-1 C	alcined Kaolin
Reproductive	Toxi. negative (rabbit) (Read-across from supporting substance (structural analogue or surrogate; no identification available)) NOAEL (Maternal toxicity and teratogenicity; Oral; Day 6 to 18 of gestation) = 1600 mg/kg bw/day (maximum dc test). There was no developmental toxicity observed. Reference: ECHA (2011).
25036-25-3 P	olymer of Epoxy resin and Bisphenol-A
	Toxi. (No data available)
	(Contd. on page

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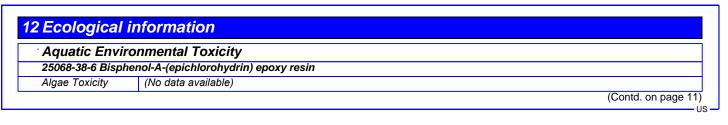


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·Pote	(Contd. of page ntial Health Effect(s): No further relevant information; classification is not possible.
	Crarget Organ Toxicity - Single Exposure
•	isphenol-A-(epichlorohydrin) epoxy resin
STOT-Single	Target: None (Rats and Mice) (No effect after single oral doses) Somnolence (general depressed activity) and dyspnea were observed after a single oral application with 11400 mg/kg t 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).
92704-41-1 C	alcined Kaolin
STOT-Single	(rat) (Read-across from supporting substance (structural analogue or surrogate; no identification available)) Target organ: None All animals survived, and appeared active and healthy after a single oral administration of 5000 mg/kg bw, or a single derma application of 5000 mg/kg bw of the substance during a 14 day observation period. Reference: ECHA (2011).
25036-25-3 P	olymer of Epoxy resin and Bisphenol-A
STOT-Single	(No data available)
Pote	ntial Health Effect(s): No further relevant information; classification is not possible.
Specific	c Target Organ Toxicity - Repeated Exposure
25068-38-6 B	isphenol-A-(epichlorohydrin) epoxy resin
	ed Target: N/A (guinea pig) (insufficient data for classification) With dermal application of the substance for 55 days, increased seromucoid concentrations, decreased lactate dehydrogenase (LDH), and decreased leucylnaphthylamidase (LNA) were observed in the test animals. Meanwhile, th 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).
92704-41-1 C	alcined Kaolin
STOT-Repeat	ed negative (rat) (Read-across from supporting substance (structural analogue or surrogate; no identification available)) Target organ: None NOAEL (Oral; OECD TG 453; 103 weeks; both males and females) = 1760 mg/kg bw/day: there was no systemic effe observed during the 103-week oral study. The NOAEL was outside of guidance value ranges; not classified. Reference: ECHA (2011).
25036-25-3 P	olymer of Epoxy resin and Bisphenol-A
STOT-Repeat	ed (No data available)
Pote	ntial Health Effect(s): No further relevant information; classification is not possible.
	ion Hazard
25068-38-6 B	isphenol-A-(epichlorohydrin) epoxy resin
Aspiration Haz	zard (No data available)
92704-41-1 C	alcined Kaolin
	zard (No data available)
25036-25-3 P	olymer of Epoxy resin and Bisphenol-A
Aspiration Haz	zard (No data available)
	ntial Health Effect(s): No relevant information; classification is not possible.
Additional	Information No further relevant information.





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Crustacean Toxicit	y 1.4 - 1.7 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs)) (Contd. of page
	1.41 mg/l (Oryzias latipes (Rice fish)) (LC50 (96 hrs))
Fish Toxicity	3.1 mg/l (Pirephales 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 Chroni
	environmental hazard.
	Reference: Dow (M)SDS (2010) and CHRIP (2010).
92704-41-1 Calcir	
Algae Toxicity	> 100 mg/l (Scenedesmus subspicatus) (ErC50 (72 hrs); OECD TG 201)
Crustacean Toxici	y > 1 mg/l (Daphnia magna (water flea)) (EC50 (96 hrs); OECD TG 202)
Fish Toxicity	(Oncorhynchus mykiss (Rainbow trout))
· · · · · · · · · · · · · · · · · · ·	LC50 (96 hrs; OEĆD TĠ 203 > 100 mg/L
	NOEC(30 day; growth rate) = 100 mg/L
	When considering all of the evidence, the substance is not classified as an environmental hazard.
	Reference: ECHA (2011) and IUCLID Dataset (2000).
	er of Epoxy resin and Bisphenol-A
Algae Toxicity	(No data available)
Crustacean Toxici	y (No data available)
Fish Toxicity	(No data available)
[•] Aquatic En	vironmental Toxicity Assessment: Toxic to aquatic life with long lasting effects.
Degradability	and Stability
25068-38-6 Bisph	enol-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 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)
92704-41-1 Calcir	
Biodegradation	(No data available)
	As an inorganic metal compound, biodegradation of the substance is not expected.
Persistence	(Test species: n/a)
	The substance is persistent. Reference: Canada DSL (2007)
Dhatadaaradatian	
Photodegradation	(No data available) As an inorganic metal compound, photodegradation of the substance is not expected.
Stability in water	(Test species: n/a) (Directive 84/449/EEC; abiotic; at 25 °C)
olubility in mator	Half-life (PH= 4, 7 and 9) > 1 year; the substance is expected to be hydrolytically stable.
	Reference: IUCLID Dataset (2000).
25036-25-3 Polyn	er of Epoxy resin and Bisphenol-A
Biodegradation	(No data available)
Persistence	(Test species: n/a) (This substance is persistent) Reference: Canada DSL (2007).
Photodegradation	(No data available)
Stability in water	(No data available)
Bioaccumulat	ion and Distribution
	enol-A-(epichlorohydrin) epoxy resin
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	(conta: on page



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BCF	0.56-42 (Cyprinus carpio) (The substance is low-bioaccumulative) BCF (28 days; Concentration: $10 \mu g/L$) = 0.56 - 0.67, 3.3 - 4.2 BCF (28 days; Concentration: $1 \mu g/L$) = 5.6 - 6.8, 33 - 42 Reference: CHRIP (2010).
Кос	1800 - 4400 L/kg (soil) Potential for mobility in soil is moderate. Reference: Dow (M)SDS (2010).
Ų	3.7 - 3.9 (Test species: n/a) Reference: Dow (M)SDS (2010).
92704-4 1	1-1 Calcined Kaolin
BCF	(No data available) The substance is not bioaccumulative. Reference: Canada DSL (2007).
Koc	(No data available)
LogPow	(Not applicable)
25036-2	5-3 Polymer of Epoxy resin and Bisphenol-A
BCF	(Test species: n/a) (The substance is low-bioaccumulative) Reference: Canada DSL (2007).
Кос	(No data available)
LogPow	(No data available)
[·] Deg	radability and Bioaccumulation Assessment: Non-rapidly degradable, and low bioaccumulative.

· 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.

UN3082
Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-, (epichlorohydrin) epoxy resin)
9 Miscellaneous dangerous substances and articles



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[·] Label	9
ADR	
Class	9 (M6) Miscellaneous dangerous substances and articles
Label	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
· EMS Number:	F-A,S-F
Transport in Bulk according to Annex MARPOL73/78 and the IBC Code	<i>c II of</i> Not applicable.
Transport/Additional Information:	
DOT	
Quantity limitations	On passenger aircraft/rail: No limit
quantity miniations	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. (Bisphend (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.

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Section 311/312 (Hazardous Chemical Inventory Reporting)	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	A, C 60
25036-25-3 Polymer of Epoxy resin and Bisphenol-A	C 5-
2530-83-8 Glycidyloxypropyltrimethoxysilane	A, C 0.1
[•] 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)	
All ingredients are listed.	
Proposition 65	
Chemicals Known to Cause Cancer	
106-89-8 1-chloro-2,3-epoxypropane	
Chemicals Known to Cause Reproductive Toxicity for Females	
None of the ingredients is listed.	
Chemicals Known to Cause Reproductive Toxicity for Males	
106-89-8 1-chloro-2,3-epoxypropane	
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)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
International Regulation Lists	
Canadian Domestic Substance Listings:	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	
92704-41-1 Calcined Kaolin	
25036-25-3 Polymer of Epoxy resin and Bisphenol-A 2530-83-8 Glycidyloxypropyltrimethoxysilane	
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:	



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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 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

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US

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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