

## Safety Data Sheet

acc. to OSHA HCS

Print Date 09/08/2015

Revision Date 09/08/2015

- **Product Identifier**
  - **Trade Name:** EP1026 Black B
  - **Application of the Substance or Mixture:** Epoxy Hardener
- **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** The product is not classified according to the Globally Harmonized System (GHS).

- **Label Elements**

- **GHS label elements** Void
- **Pictogram(s)** Void
- **Signal Word** Void
- **Hazard statements** Void

- **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)**



- **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: 52338-87-1	1,3-Bis[3-(dimethylamino)propyl]urea	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	5-<10%
EINECS: 257-861-2			

- **Classification System:**

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

- **Additional Information:**

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

### 4 First-aid measures

- **Description of First Aid Measures**

- **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**

Rinse opened eyes under running water for at least 15 minutes.  
Remove contact lenses if present and easy to do so; 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.

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Seek medical treatment in case of complaints.

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### 5 Fire-fighting measures

- **Extinguishing Media**
  - **Suitable Extinguishing Agent(s)**  
Use fire fighting measures and extinguishing agents that suit the environment.  
In case of fire, suitable extinguishing agents are:  
Alcohol resistant foam.  
Dry chemical or fire-extinguishing powder.  
Carbon dioxide (CO<sub>2</sub>).  
Water spray or water fog.
  - **Unsuitable Extinguishing Agent(s)** No relevant information.
- **Firefighting Procedures**  
Isolate fire and deny unnecessary entry.  
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.
- **Special Hazards Arising in Fire**  
Will not burn unless preheated.  
In case of fire, following can be released:  
Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)  
Nitrogen oxides  
Sulphur dioxide (SO<sub>2</sub>)
- **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**  
Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.
- **Environmental Precautions** No further relevant information.
- **Cleaning Up Methods**  
For large spills: remove with vacuum trucks or pump to storage/salvage vessels.  
For small spills: absorb spilled chemical with liquid-binding materials.  
Dispose contaminated chemicals as waste according to Section 13.

### 7 Handling and storage

- **Handling**
  - **Precautions for Safe 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**  
Keep stored in accordance with local, regional, national, and international regulations.
  - **Information about Storage in One Common Storage Facility**  
Store away from incompatible material(s).  
Store away from foodstuffs.  
Avoid release to the environment.
- **Additional Information** No further relevant information.

### 8 Exposure controls/personal protection

- **Engineering Measures or Controls**
  - **Exposure Limit Values that Require Monitoring at the Workplace**  
The substance/mixture does not contain any relevant quantities of substances with critical values that have to be monitored at the workplace.
  - **Other Engineering Measures or Controls**  
Ventilation rates should be matched to conditions.  
If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
- **Personal Protective**
  - **General Protective and Hygienic Measures** Avoid any skin contact.

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- **Personal Protective Equipment (PPE)**

- **Breathing Equipment**

Where the potential for over-exposure exists, use a NIOSH approved supplied-air respirator with a full facepiece operated in a pressure-demand or other positive-pressure mode.

- **Hand Protection**



Protective gloves

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

Suggested glove type(s):

- Nitrile Gloves

- Butyl Rubber Gloves

- **Eye Protection**



Safety glasses

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

- **Additional Information**

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

### 9 Physical and chemical properties

- **Information on Basic Physical and Chemical Properties**

- **Appearance:**

- **Form:** Liquid
- **Color:** Clear
- **Odor:** Sulphurous
- **Odor Threshold:** Not determined.

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

- **Change in Condition:**

- **Melting Point:** Not determined.
- **Boiling Point:** Not determined.
- **Flash Point:** > 93 °C (> 199 °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):** 1.15 g/cm<sup>3</sup> (9.597 lbs/gal)

- **Solubility in or Miscibility with**

- **Water:** Not miscible or difficult to mix.
- **Viscosity:**
- **Dynamic at 20 °C (68 °F):** 15000 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)**

Oxidizing agents  
Strong acids

- **Hazardous Decomposition Product(s)**

Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

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**11 Toxicological information**

 · **Acute Toxicity**

 · **Oral**
**Mercaptan Terminated Polymer-non hazardous**

Oral	LD50	2600 mg/kg (rat)
Reference: Gabriel Performance Products (M)SDS (2005).		

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Oral	LD50	>5000 mg/kg (rat)
> 5000 mg/kg		
Reference: BASF SDS (2015).		

 · **Dermal**
**Mercaptan Terminated Polymer-non hazardous**

Dermal	LD50	>10200 mg/kg (rabbit)
Reference: Gabriel Performance Products (M)SDS (2005).		

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Dermal	LD50	not determined mg/kg (rat)
Reference: BASF SDS 2015		

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

 · **Inhalative**
**Mercaptan Terminated Polymer-non hazardous**

Inhalative	LC50/4 h	(No data available)
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**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Inhalative	LC50/4 h	not determined mg/l (rat)
Reference: BASF SDS 2015		

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

 · **Skin Corrosion or Irritation**
**Mercaptan Terminated Polymer-non hazardous**

Corrosion/Irritation	slightly irrit. (rabbit) (Draize score: 1.2/8 (Max. 8))
Reference: Gabriel Performance Products (M)SDS (2005).	

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Corrosion/Irritation	irritating (Test species: n/a) (based on product w/ similar structure/composition)
Reference: BASF SDS (2015).	

 · **Potential Health Effect(s):**

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

 · **Eye Serious Damage or Irritation**
**Mercaptan Terminated Polymer-non hazardous**

Damage/Irritation	slightly irrit. (rabbit) (Draize score: 16.8/110 (Max. 100))
Reference: Gabriel Performance Products (M)SDS (2005).	

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Damage/Irritation	irritating (Test species: n/a) (based on product w/similar structure/composition.)
Reference: BASF SDS (2015).	

 · **Potential Health Effect(s):**

 Causes eye irritation.  
 In contact with eye, may cause:  
 redness and pain  
 unlikely to cause corneal injuries

 · **Respiratory or Skin Sensitization**
**Mercaptan Terminated Polymer-non hazardous**

Sensitization	Skin	not sensitizing (guinea pig)
	Respiratory	(No data available)
Reference: Gabriel Performance Products (M)SDS (2005).		

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Sensitization	Skin	sensitizing (Test species: n/a)
	Respiratory	(No data available)
Reference: BASF (M)SDS (2011).		

 · **Potential Health Effect(s):**

 No relevant information for skin sensitization; classification is not possible.  
 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**
**Mercaptan Terminated Polymer-non hazardous**

Mutagenicity	(No data available)
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**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

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

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**· Carcinogenicity**
**Mercaptan Terminated Polymer-non hazardous**

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

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

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

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

**· Reproductive Toxicity**
**Mercaptan Terminated Polymer-non hazardous**

Reproductive Toxi. | (No data available)

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Reproductive Toxi. | (No data available)

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

**· Specific Target Organ Toxicity - Single Exposure**
**Mercaptan Terminated Polymer-non hazardous**

STOT-Single | (No data available)

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

STOT-Single | (No data available)

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

**· Specific Target Organ Toxicity - Repeated Exposure**
**Mercaptan Terminated Polymer-non hazardous**

STOT-Repeated | (No data available)

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

STOT-Repeated | (No data available)

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

**· Aspiration Hazard**
**Mercaptan Terminated Polymer-non hazardous**

Aspiration Hazard | (No data available)

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Aspiration Hazard | (No data available)

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

**12 Ecological information**
**· Aquatic Environmental Toxicity**
**Mercaptan Terminated Polymer-non hazardous**

 Algae Toxicity | > 100 mg/l (Test species: n/a) (EC50; OECD TG 201)  
 The substance is not regulated as an environmental hazard.  
 Reference: Cognis (M)SDS (2007).

Crustacean Toxicity | (No data available)

Fish Toxicity | (No data available)

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

Algae Toxicity | EC50=0.19 mg/l (Green Algae) (ChV = 0.062 mg/l)

Crustacean Toxicity | LC50(48 hrs)=58 mg/l (Daphnia magna (water flea)) (ChV = 0.045 mg/l)

Based on the non-rapidly degradability and chronic ChV &lt; 0.1 mg/l, the substance is classified as a Chronic-1 environmental hazard.

 Fish Toxicity | LC50(96hrs)=910 mg/l (Test species: n/a) (ChV = 13 mg/l)  
 Reference: US EPA Hazard-Based Prioritization Draft (2008).

 · **Aquatic Environmental Toxicity Assessment:** Not a known Environmental hazard to aquatic life.

**· Degradability and Stability**
**Mercaptan Terminated Polymer-non hazardous**

 Biodegradation | poorly biodeg. (Test species: n/a) (OECD TG 301B)  
 Reference: Cognis (M)SDS (2007).

Persistence | (No data available)

Photodegradation | (No data available)

Stability in water | (No data available)

**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

 Biodegradation | not biodegrad. (Test species: n/a)  
 The substance is not rapidly or readily biodegradable.

Persistence | (No data available)

Photodegradation | (Test species: n/a) (Half-life = 0.062 day)

Stability in water | (No data available)

Reference: US EPA Hazard-Based Prioritization Draft (2008) and BASF (M)SDS (2011).

**· Bioaccumulation and Distribution**
**Mercaptan Terminated Polymer-non hazardous**

BCF | (No data available)

Koc | (No data available)

LogPow | (No data available)

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**52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea**

BCF	3.2 (Test species: n/a) The substance is not or low bioaccumulative.
Koc	510 L/kg (Test species: n/a)
LogPow	-0.25 (Test species: n/a)

Reference: US EPA Hazard-Based Prioritization Draft (2008).

· **Degradability and Bioaccumulation Assessment:** No further relevant information; assessment is not possible.

### 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

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR</li> <li>· IMDG</li> <li>· IATA</li> </ul>	<p>Not regulated for transport; not applicable.          Not regulated for transport; not applicable.          UN3334          Not regulated for transport; not applicable.          UN3334</p>
<ul style="list-style-type: none"> <li>· <b>UN Proper Shipping Name</b></li> <li>· DOT, ADR, IMDG, IATA</li> <li>· DOT, ADR, IMDG</li> </ul>	<p>Aviation Regulated Liquid, N.O.S. (Polymercaptan)          Void          Not regulated for transport; not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR, IMDG</li> <li>· Class</li> <li>· IATA</li> </ul>	<p>Not regulated for transport; not applicable.          Void</p>
 <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	<p>9 Miscellaneous dangerous substances and articles          9</p>
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· DOT, ADR</li> <li>· IMDG</li> <li>· IATA</li> </ul>	<p>Not regulated for transport; not applicable.          Not regulated for transport; not applicable.          Void          III</p>
<ul style="list-style-type: none"> <li>· <b>Environmental Hazards:</b></li> <li>· <b>Marine Pollutant:</b></li> </ul>	<p>Not applicable.          Yes (DOT)</p>
<ul style="list-style-type: none"> <li>· <b>Special Precautions:</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	<p>Void</p>

### 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)**

52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea	A   5-<10%
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· **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

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

All ingredients are listed.

· **Proposition 65**

· **Chemicals Known to Cause Cancer**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Chemicals Known to Cause Developmental Toxicity**

None of the ingredients is listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **International Regulation Lists**

· **Canadian Domestic Substance Listings:**

All ingredients are listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

All ingredients are listed.

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

All ingredients are listed.

· **Korean Existing Chemical Inventory:**

All ingredients are listed.

· **European Pre-registered substances:**

All ingredients are listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

**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  
 ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DOT: US Department of Transportation  
 ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH  
 HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System  
 IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)  
 ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)  
 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  
 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  
 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

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SARA: US Superfund Amendments and Reauthorization Act  
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)  
TSCA: US Toxic Substance Control Act  
ACToR: US EPA Aggregated Computational Toxicology Resource  
BCF: Bioconcentration Factor  
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  
DSL: Canada Domestic Substance List  
ESIS: European Chemical Substances Information System  
HSDB: US NLM TOXNET Hazardous Substances Databank  
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database  
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)  
ICSC: International Chemical Safety Cards  
Koc: Partition coefficient, soil Organic Carbon to water  
NITE: National Institute of Technology and Evaluation, Japan  
OECD: Organisation for Economic Co-operation and Development  
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  
SIDS: OECD existing chemicals Screening Information Data Sets  
SVHC: EU ECHA Substance of Very High Concern  
TOXLINE: US NLM bibliographic database search system  
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