

Safety Data Sheet acc. to OSHA HCS

Print Date 10/26/2015

Revision Date 10/26/2015

- **Product Identifier**
 - **Trade Name:** EP750 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**
 - 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.
 - Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **Label Elements**
 - **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
 - **Pictogram(s)**



GHS07

- **Signal Word** Warning
- **Hazard-determining Component(s)**
Triethylenetetramine
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful 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.
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.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard Rating System**
 - **NFPA System**
 - **NFPA Ratings (scale 0 - 4)**



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

- **HMIS System**
 - **HMIS Ratings (scale 0 - 4)**



- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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3 Composition/information on ingredients

- Chemical Characterization: Mixtures**

- Composition/Information on Ingredients**

CAS: 68410-23-1	Fatty acids, C18 unsatd., dimers, reaction products with polyethylenepolyamines Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Eye Irrit. 2A, H319	90-100%
CAS: 112-24-3 EINECS: 203-950-6 Index Number: 612-059-00-5 RTECS: YE6650000	Triethylenetetramine Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≤0.1%

- 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**

- 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. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.

- After Skin Contact**

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. Seek medical treatment in case of complaints.

- 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. Immediately call a doctor. Do NOT induce vomiting.

- After Exposure** Seek medical treatment in case of complaints.

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

- Indication of any Immediate Medical Attention and Special Treatment Needed**

After frequent or high intense exposure, the following medical tests are recommended:
 eye tests
 skin tests
 Check section 11 Toxicological Information for further relevant information.

- Additional Information**

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

5 Fire-fighting measures

- Extinguishing Media**

- Suitable Extinguishing Agent(s)**

Use fire fighting measures and extinguishing agents that suit the environment. In case of fire, suitable extinguishing agents are:
 Alcohol resistant foam.
 Dry chemical or fire-extinguishing powder.
 Carbon dioxide (CO₂).
 Water spray or water fog.

- Unsuitable Extinguishing Agent(s)** 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. Use water spray or water fog to cool fire-exposed containers. 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. Use water in flooding quantities as fog.

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Special Hazards Arising in Fire

Will not burn unless preheated.
May evolve flammable hydrogen (H₂) in contact with metals when heated or in a fire.
In case of fire, following can be released:
Various hydrocarbons
May generate ammonia gas.
nitric acid
Carbon dioxide (CO₂) and Carbon monoxide (CO)
Nitrogen 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.
Absorb residues with liquid-binding materials.
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.

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.
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.

8 Exposure controls/personal protection

Engineering Measures or Controls

Exposure Limit Values that Require Monitoring at the Workplace

112-24-3 Triethylenetetramine

WEEL	Long-term value: 6 mg/m ³ , 1 ppm
	Skin

Other Engineering Measures or Controls

Ventilation rates should be matched to conditions.
If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective

General Protective and Hygienic Measures

Avoid any contact with eye.
Do not eat, drink or smoke during work.
Clean hands and exposed skin thoroughly after work and before breaks.

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Personal Protective Equipment (PPE)

Breathing Equipment

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

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 with side shields and or face shield.

Intensive or long term use: Tightly sealed goggles and Face Shields

Body Protection

Chemical resistant apron; cover exposed skin.

Where the potential for over-exposure exists, the following protective work clothing is recommended:
Tychem® BR Coveralls

Additional Information

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

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

9 Physical and chemical properties

Information on Basic Physical and Chemical Properties

Appearance:

- Form:** Liquid
- Color:** Amber
- Odor:** Ammonia-like
- Odor Threshold:** Not determined.

PH-Value at 20 °C (68 °F): 8

Change in Condition:

- Melting Point:** Not determined.
- Boiling Point:** 140 °C (284 °F)
- Flash Point:** 266 °C (511 °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 20 °C (68 °F):** 0.98 g/cm³ (8.178 lbs/gal)
- Solubility in or Miscibility with**
 - Water:** Not miscible or difficult to mix.
- Viscosity:**
 - Dynamic at 20 °C (68 °F):** 8000 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.

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- **Possibility of Other Hazardous Reaction(s)** No further relevant information available.
- **Incompatible Material(s)**
strong reducing agents, mixtures with nitrites may generate carcinogenic N-Nitrosamines.
acid chlorides, acid anhydrides, hypochlorites
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.
- **Hazardous Polymerization Product(s)** No relevant information.

11 Toxicological information

- **Acute Toxicity** LD50(rat):>8000 mg/kg ATE

· **Oral**

ATE (Acute Toxicity Estimates)

Oral	LD50	>8000 mg/kg (rat) Royce SDS (2015)
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- **Potential Health Effect(s):**
abnormal pain
shock or collapse
See acute inhalative effect(s) for further information

· **Dermal**

Dermal	LD50	>5000 mg/kg (rabbit) Royce SDS (2015)
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- **Potential Health Effect(s):**
No further relevant information available; classification is not possible.
See acute inhalative effect(s) for further information.

· **Inhalative**

- **Potential Health Effect(s):**
While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):
shortness of breath
sore throat
wheezing

· **Skin Corrosion or Irritation**

Corrosion/Irritation	severe (rabbit) (Draize test) Royce SDS (2015)
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68410-23-1 Fatty acids, C18 unsatd., dimers, reaction products with polyethylenepolyamines

Corrosion/Irritation	(Not applicable) (OECD Test Guideline 431) Not considered to be corrosive to skin in the in vitro skin model EpiDermTM. Source: ECHA REACH Dossier GLP Study 2012
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- **Potential Health Effect(s):**
Causes skin irritation.
In contact with skin, may cause:
blister formation
redness and pain

· **Eye Serious Damage or Irritation**

Damage/Irritation	serious (rabbit) (Draize) Royce SDS (2015)
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- **Potential Health Effect(s):**
Causes serious eye irritation.
In contact with eye, may cause:
redness and pain

· **Respiratory or Skin Sensitization**

Sensitization	Skin	(No data available for the product itself) Product contains Triethylenetetramine - may produce an allergic reaction.
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- **Potential Health Effect(s):**
May cause an allergic skin reaction.
No relevant information for respiratory sensitization; classification is not possible.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Germ Cell Mutagenicity**

Triethylenetetramine has been found to be a direct-acting mutagen in the Ames assay. It gave positive results with and without activation.

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

· **Carcinogenicity**

Carcinogenicity	(No data available for the product itself) Not listed by OSHA/NTP/IARC. Not classified as a carcinogen.
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- **Potential Health Effect(s):** Not a known Carcinogen.

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Reproductive Toxicity

Triethylenetetramine was fetotoxic and teratogenic when fed to rats in a 0.83% and 1.67% diet. When applied dermally to the skin of pregnant guinea pigs, there was a 90% abortion rate or death of fetus with secondary copper deficiency, resulting from the chelating activity of TETA.

Reproductive Toxi. (Test species listed below)

TETA was fetotoxic and teratogenic when fed to rats in a 0.83% and 1.67% diet. When applied dermally to the skin of pregnant guinea pigs, there was a 90% abortion rate or death of fetus with secondary copper deficiency, resulting from the chelating activity of TETA.

Specific Target Organ Toxicity - Single Exposure

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

Aspiration Hazard

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

12 Ecological information

Aquatic Environmental Toxicity

LC50(fish)(96hr): 10-100mg/l
EC50(Daphnia magna)(24hr): 31.1mg/l
EC50(algae)(72hr): 10-100mg/l

Algae Toxicity 10-100 mg/l (Green Algae) (EC50(72-hr))
Royce SDS (2015)

Fish Toxicity 10-100 mg/l (Test species listed below) (LC50 (96hr))
LC50(fish)(96-hr) 10-100mg/l.
Royce SDS (2015)

Aquatic Environmental Toxicity Assessment: Harmful to aquatic life with long lasting effects.

Degradability and Stability

Not readily biodegradable (0% after 20 days)

Biodegradation (Not applicable)
Not readily biodegradable (0% after 20 days)
Royce SDS (2015)

Degradability and Bioaccumulation Assessment:

Product not classified as Persistent, Bioaccumulative and Toxic.
Product not classified as very Persistent or very Bioaccumulative.
Non-rapidly degradable, and low bioaccumulative.

13 Disposal considerations

Hazardous Waste List

Description: It may be necessary to contain and dispose of the substance/mixture as a hazardous waste.

Waste Treatment Recommendation:

Generation of waste should be avoided or minimized wherever possible.
Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.
Dispose of contents/containers in accordance with local, regional, national, and international regulations.

Unused and Uncontaminated Packagings

Recommendation Dispose of according to your local waste regulations.

14 Transport information

UN-Number

DOT, ADR, IMDG, IATA

UN3082

UN Proper Shipping Name

Environmentally hazardous substance, liquid, n.o.s.
(Polyethylenepolyamines), 9,III

Transport hazard class(es)

DOT, IMDG, IATA



Class
Label

9 Miscellaneous dangerous substances and articles
9

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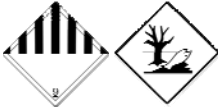
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<ul style="list-style-type: none"> · ADR 		
<ul style="list-style-type: none"> · Class · Label 		9 (M6) Miscellaneous dangerous substances and articles 9
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 		III
<ul style="list-style-type: none"> · Environmental Hazards: · Marine Pollutant: · Special Marking (ADR): · Special Marking (IATA): 		Product contains environmentally hazardous substances: Fatty acids, C18 unsatd., dimers, reaction products with polyethylenepolyamines Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> · Special Precautions: · Danger Code (Kemler): · EMS Number: · Segregation Groups 		Warning: Miscellaneous dangerous substances and articles 90 F-A, S-F Alkalis
<ul style="list-style-type: none"> · Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code 		Not applicable.
<ul style="list-style-type: none"> · Transport/Additional Information: · DOT · Remarks: 		Special marking with the symbol (fish and tree).
<ul style="list-style-type: none"> · ADR · Excepted quantities (EQ) 		Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 		5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul style="list-style-type: none"> · UN "Model Regulation": 		UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (FATTY ACIDS, C18 UNSATD., DIMERS, REACTION PRODUCTS WITH POLYETHYLENEPOLYAMINES), 9, III

15 Regulatory information

<ul style="list-style-type: none"> · USA Regulation Lists · SARA (Superfund Amendments and Reauthorization Act of 1986) 	
<ul style="list-style-type: none"> · Section 302 (Extremely Hazardous Substances) 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Section 313 (Toxics Release Inventory (TRI) reporting) 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Section 311/312 (Hazardous Chemical Inventory Reporting) 	
112-24-3	Triethylenetetramine A ≤0.1%
<ul style="list-style-type: none"> · 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 	
<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act) 	
112-24-3	Triethylenetetramine
<ul style="list-style-type: none"> · Proposition 65 · Chemicals Known to Cause Cancer 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Chemicals Known to Cause Reproductive Toxicity for Females 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Chemicals Known to Cause Reproductive Toxicity for Males 	
None of the ingredients is listed.	
<ul style="list-style-type: none"> · Chemicals Known to Cause Developmental Toxicity 	
None of the ingredients is listed.	

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· 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:

112-24-3 Triethylenetetramine

· Canadian Ingredient Disclosure list (limit 0.1%)

112-24-3 Triethylenetetramine

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· Chinese Chemical Inventory of Existing Chemical Substances:

112-24-3 Triethylenetetramine

· Japanese Existing and New Chemical Substance List:

112-24-3 Triethylenetetramine

· Korean Existing Chemical Inventory:

112-24-3 Triethylenetetramine

· European Pre-registered substances:

112-24-3 Triethylenetetramine

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

None of the ingredients is listed.

· Restriction of Hazardous Substances Directive (RoHS) list:

None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department Issuing (M)SDS:** Product Safety Department
- **Contact:** msds@resinlab.com

· Abbreviations and acronyms:

- ACGIH: American Conference of Governmental Industrial Hygienists
- ACToR: US EPA Aggregated Computational Toxicology Resource
- ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
- BCF: Bioconcentration Factor
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System
- CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform
- DOT: US Department of Transportation
- DSL: Canada Domestic Substance List
- ESIS: European Chemical Substances Information System
- HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System
- HSDB: US NLM TOXNET Hazardous Substances Databank
- 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)
- Koc: Partition coefficient, soil Organic Carbon to water
- LC50/LD50: Lethal Concentration/Dose, 50 percent
- N/a: Not available or Not applicable
- NFPA: US National Fire Protection Association
- NIOSH: US National Institute of Occupational Safety and Health
- NITE: National Institute of Technology and Evaluation, Japan
- OECD: Organisation for Economic Co-operation and Development
- OSHA: US Occupational Safety and Health Administration
- P: Marine Pollutant
- RCRA: Resource Conservation and Recovery Act (USA)

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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
· **Date of preparation / last revision 10/26/2015 / 10**

US