

Safety Data Sheet
acc. to OSHA HCS

Print Date 03/23/2015

Revision Date 03/23/2015

· **Product Identifier**

· **Trade Name:** EP1115 CLEAR 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**



GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· **Label Elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Pictogram(s)**



GHS07 GHS09

· **Signal Word** Warning

· **Hazard statements**

Causes skin irritation.
Causes serious eye irritation.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

Wear protective gloves.
Wear eye protection / face protection.
Avoid release to the environment.
Wash thoroughly after handling.
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).
If skin irritation occurs: Get medical advice/attention.
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.

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- **Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid release to the environment.
 Wash thoroughly after handling.

- **Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard Rating System**

- **NFPA System**

- **NFPA Ratings (scale 0 - 4)**



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

- **HMIS System**

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



- **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: 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	40-50%
	Mercaptan Terminated Polymer-non hazardous	40-50%
CAS: 52338-87-1 EINECS: 257-861-2	1,3-Bis[3-(dimethylamino)propyl]urea ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	2.5-5%

- **Classification System:**

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

4 First-aid measures

- **Description of First Aid Measures**

- **General Information**

Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

- **After Inhalation**

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.
 Supply fresh air and to be sure call for a doctor.
 In case of unconsciousness place patient stably in side position for transportation.
 Supply fresh air; consult doctor in case of complaints.

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· After Skin Contact

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

· After Eye Contact

Immediately bathe eyes for 15 minutes under running water.
Immediately remove contact lenses if present. Continue rinsing.
Seek immediate medical advice.

· After Swallowing

If victim is unconscious; never give anything by mouth.
If victim is conscious; rinse out mouth and give victim small amounts of water.
Seek medical treatment in case of complaints.

· After Exposure Seek medical treatment in case of complaints.**· Information for Doctor** Have chemical containers, labels and/or (M)SDS ready when calling or visiting a medical center.**· Indication of any Immediate Medical Attention and Special Treatment Needed**

After frequent or high intense exposure, the following medical tests are recommended:

eye tests

skin tests

Check section 11 Toxicological Information for further relevant information.

· Additional Information

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

5 Fire-fighting measures

· Extinguishing Media**· Suitable Extinguishing Agent(s)**

Use fire fighting measures and extinguishing agents that suit the environment.

In case of fire, suitable extinguishing agents are:

Alcohol resistant foam.

Dry chemical or fire-extinguishing powder.

Carbon dioxide (CO₂).

Water spray or water fog.

· Unsuitable Extinguishing Agent(s) 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.

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

In case of fire, following can be released:

Nitrogen oxides

May generate ammonia gas.

nitric acid

hydrocarbons

Hydrogen Sulfide (H₂S)

Carbon oxides, Nitrogen oxides, and Hydrogen if mixed with metals.

Sulphur dioxide (SO₂)**· 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).

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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**

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.

- **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.

- **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.

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· **Personal Protective**

· **General Protective and Hygienic Measures**

- Avoid any contact with eye.
- Do not eat, drink or smoke during work.
- Keep food, drink or feed away from working area.
- Contaminated work clothing is not allowed out of workplace.
- Avoid any skin contact.
- Clean hands and exposed skin thoroughly after work and before breaks.

· **Personal Protective Equipment (PPE)**

· **Breathing Equipment**

- Caution! Improper use of respirators is dangerous.
- In case of brief exposure or low pollution, use a respiratory filter device.
- In case of intensive or longer exposure, use a positive-pressure respiratory protective device that is independent of circulating air.

· **Hand Protection**



Protective gloves

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

Suggested glove type(s):

- Nitrile Gloves
- Butyl Rubber Gloves

· **Eye Protection**



Tightly sealed goggles

- **Body Protection** No relevant information.

· **Additional Information**

All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.
The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properties

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

· **Appearance:**

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

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

· **Change in Condition:**

- **Melting Point:** Not determined.
- **Boiling Point:** 140 °C (284 °F)
- **Flash Point:** 182 °C (360 °F)
- **Decomposition Temperature:** Not determined.
- **Flammability:** Not determined.
- **Explosion:** Not determined.

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- **Explosion Limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Vapor Pressure:** Not determined.
- **Density at 25 °C (77 °F):** 1.05 g/cm³ (8.762 lbs/gal)
- **Solubility in or Miscibility with**
 - **Water:** Slightly soluble.
- **Viscosity:**
 - **Dynamic at 20 °C (68 °F):** 50000 mPas
 - **Kinematic:** Not determined.
- **Additional Information** No further relevant information.

10 Stability and reactivity

- **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.
- **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
- **Thermal Decomposition and Conditions to be Avoided**
 Keep away from incompatible material(s).
 Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.
- **Possibility of Other Hazardous Reaction(s)**
 May react with nitrous acid or other nitrosating agents producing Nitrosamines, a known carcinogen.
 No further relevant information available.
- **Incompatible Material(s)**
 Oxidizing agents
 Strong reducing agents
 Acid anhydrides
 Acid chlorides
 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.
- **Additional Information** No further relevant information.

11 Toxicological information

Acute Toxicity

Oral

Mercaptan Terminated Polymer-non hazardous

Oral	LD50	2600 mg/kg (rat) Reference: Gabriel Performance Products (M)SDS (2005).
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52338-87-1 1,3-Bis[3-(dimethylamino)propyl]urea

Oral	LD50	>5000 mg/kg (rat) > 5000 mg/kg Reference: BASF SDS (2015).
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- **Potential Health Effect(s):** While not a classified acute oral hazard, the product may cause the following symptom(s):

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· 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):

Not a classified acute dermal hazard.
 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
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	

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 serious eye irritation.
 In contact with eye, may cause:
 redness and pain

· 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).		

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· **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)

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

Mutagenicity (No data available)

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

· **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.

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

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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 < 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:

Very toxic to aquatic life with long lasting effects.

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)

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.

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

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13 Disposal considerations

Hazardous Waste List
Description:

The product has not been evaluated for its hazards when disposed as a waste by RCRA. However, it is necessary to contain and dispose of the product as a hazardous waste based on the Hazard Identification in Section 2.

Waste Treatment Recommendation:

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

Unused and Uncontaminated Packagings

Recommendation Dispose of according to your local waste regulations.

14 Transport information

UN-Number

DOT, ADR, IMDG, IATA UN3082

UN Proper Shipping Name

DOT, ADR, IMDG, IATA Environmentally hazardous substances, liquid, n.o.s. (Polyamide Resin, Tertiary Amine)

Transport hazard class(es)

DOT, IMDG, IATA



Class 9 Miscellaneous dangerous substances and articles
Label 9

ADR


Class 9 (M6) Miscellaneous dangerous substances and articles
Label 9

Packing group

DOT, ADR, IMDG, IATA 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:

Danger Code (Kemler): Warning: Miscellaneous dangerous substances and articles

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· **EMS Number:**

F-A,S-F

 · **Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional Information:**· **DOT**· **Quantity limitations**

On passenger aircraft/rail: No limit

On cargo aircraft only: No limit

· **Remarks:**

Special marking with the symbol (fish and tree).

· **ADR**· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **IMDG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN3082, Environmentally hazardous substances, liquid, n.o.s. (Polyamide Resin, Tertiary Amine), 9, III

15 Regulatory information

· **USA Regulation Lists**· **SARA (Superfund Amendments and Reauthorization Act of 1986)**· **Section 302 (Extremely Hazardous Substances)**

None of the ingredients is listed.

· **Section 313 (Toxics Release Inventory (TRI) reporting)**

None of the ingredients is listed.

· **Section 311/312 (Hazardous Chemical Inventory Reporting)**

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

A 2.5-5%

112-24-3 Triethylenetetramine

A 0-<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)**

Mercaptan Terminated Polymer-non hazardous

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

112-24-3 Triethylenetetramine

· **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.

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· 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:

	Mercaptan Terminated Polymer-non hazardous
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52338-87-1	1,3-Bis[3-(dimethylamino)propyl]urea
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112-24-3	Triethylenetetramine
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· 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:

	Mercaptan Terminated Polymer-non hazardous
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52338-87-1	1,3-Bis[3-(dimethylamino)propyl]urea
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112-24-3	Triethylenetetramine
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· Japanese Existing and New Chemical Substance List:

	Mercaptan Terminated Polymer-non hazardous
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52338-87-1	1,3-Bis[3-(dimethylamino)propyl]urea
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112-24-3	Triethylenetetramine
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· Korean Existing Chemical Inventory:

	Mercaptan Terminated Polymer-non hazardous
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52338-87-1	1,3-Bis[3-(dimethylamino)propyl]urea
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112-24-3	Triethylenetetramine
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· European Pre-registered substances:

	Mercaptan Terminated Polymer-non hazardous
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52338-87-1	1,3-Bis[3-(dimethylamino)propyl]urea
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112-24-3	Triethylenetetramine
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· 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.

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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)
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

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