

Safety Data Sheet acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

· **Product Identifier**

· **Trade Name:** EP1026T3 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**



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

· **Signal Word** Warning

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

· **Precautionary statements**

Wear protective gloves.

Wear eye protection / face protection.

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.

Take off contaminated clothing and wash it before reuse.

· **Prevention**

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

· **Hazard Rating System**

· **NFPA System**

· **NFPA Ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 1)

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

HMIS System
HMIS Ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	1	Fire = 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/Information on Ingredients

Composition/Information on Ingredients		
	Mercaptan Terminated Polymer-non hazardous	80-90%
CAS: 52338-87-1 EINECS: 257-861-2	1,3-Bis[3-(dimethylamino)propyl]urea ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	5-<10%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	2.5-5%
CAS: 112945-52-5 EINECS: 231-545-4	silicon dioxide, chemically prepared ⚠ STOT SE 3, H335	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.

After Skin Contact

 Gently wash contaminated skin with water and soap and rinse thoroughly.
 Seek medical treatment in case of complaints.

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 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 immediate medical advice.

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.

(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 2)

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

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**

Will not burn unless preheated.

In case of fire, following can be released:

Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.

Carbon dioxide (CO₂) and Carbon monoxide (CO)

Silicon oxide (SiO₂)

· **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.

(Contd. on page 4)

Safety Data Sheet acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 3)

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.
Ensure good ventilation and/or exhaustion at workplace.
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.

· Personal Protective

· **General Protective and Hygienic Measures**

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.
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.

(Contd. on page 5)

Safety Data Sheet acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 4)

· **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** 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:** Paste
- **Color:** White
- **Odor:** Sulphurous
- **Odor Threshold:** Not determined.

· **PH-Value:** Not determined.

· **Change in Condition:**

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

- **Vapor Pressure:** Not determined.
- **Density at 25 °C (77 °F):** 1.17 g/cm³ (9.764 lbs/gal)
- **Solubility in or Miscibility with**
 - **Water:** Not miscible or difficult to mix.
- **Viscosity:**
 - **Dynamic at 20 °C (68 °F):** 665000 mPas
 - **Kinematic:** Not determined.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 5)

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

10 Stability and reactivity

- **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.
- **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
- **Thermal Decomposition and Conditions to be Avoided**
Keep away from incompatible material(s).
Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.
- **Possibility of Other Hazardous Reaction(s)** No further relevant information available.
- **Incompatible Material(s)**
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.
- **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).
------	------	--

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

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

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Oral	LD50	>5000 mg/kg (rat) (test method not specified) Reference: Cabot (M)SDS (2012).
------	------	--

112945-52-5 silicon dioxide, chemically prepared

Oral	LD50	> 3160 mg/kg (mouse) Reference: OECD SIDS (2004) and IUCLID Dataset (2004). > 5000 mg/kg (rat) (OECD TG 401 A) Reference: OECD SIDS (2004) and IUCLID Dataset (2004).
------	------	--

· **Potential Health Effect(s):** May be harmful if swallowed.

· 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
--------	------	--

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 6)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Dermal LD50 (Test species: n/a) (Toxicity not expected based on acute oral data)
 Based on the acute oral toxicity test, it was expected that toxicity to mammals via dermal application of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute dermal hazard as a wetted form.

112945-52-5 silicon dioxide, chemically prepared

Dermal LD50 > 2000 mg/kg (rabbit)
 Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

· **Potential Health Effect(s):** Not a classified acute dermal hazard.

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

Inhalative LC50/4 h (No data available)

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

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

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on acute oral data)
 Due to wetted form of the substance, inhalative effects from dust form can be seen as negligible. Meanwhile, based on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalation hazard.

112945-52-5 silicon dioxide, chemically prepared

Inhalative LC50/4 h > 2.08 mg/l (rat)
 No animals died.
 Nasal discharge during exposure, crusty eyes, crusty nose and alopecia at days post-exposure.
 Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

· **Potential Health Effect(s):** No further 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).

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Corrosion/Irritation Non-irritating (Test species: n/a) (Primary irritation index=0)
 mildly irritating (rabbit) (Read across from CAS 63148-62-9)
 No test detail available; for safety reasons, the substance was classified as mildly irritating (Category 3) to rabbit skin.
 Reference: HSNO CCID (2010).

112945-52-5 silicon dioxide, chemically prepared

Corrosion/Irritation not Irritating (rabbit) (OECD TG 404)
 Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

· **Potential Health Effect(s):**

Causes mild 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).

(Contd. on page 8)

US

Safety Data Sheet

acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 7)

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).

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Damage/Irritation slightly irrit. (Human) (Read across from CAS 63148-62-9)
 non-irritating (Primary irritation index=0)
 Transient ocular irritation was observed in humans, rabbits, dogs, and monkeys after injection of the substance to their eye bodies. However, those effects can be seen as negligible based on regular use of the substance. When applying lower viscosity substance-oil mixture to human and rabbit eyes, there was no cornea injury, but a delay of healing of the existed corneal erosion observed. For safety reasons, the substance was classified as a slight eye irritant (Category 2B).
 Reference: ACToR (2011) and Cabot (M)SDS (2012).

112945-52-5 silicon dioxide, chemically prepared

Damage/Irritation slightly irrit. (Human)
 Studies have shown this substance to be slightly irritating.
 Reference: OECD SIDS (2004).

 not irritating (rabbit) (OECD TG 405)
 Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

· 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) Reference: Gabriel Performance Products (M)SDS (2005).
	Respiratory	(No data available)

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

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

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Sensitization	Skin	(No data available) Primary irritation index=0 Non-irritating. Cabot MSDS (2012)
	Respiratory	(No data available)

112945-52-5 silicon dioxide, chemically prepared

Sensitization	Skin	not sensitizing (guinea pig) There was a case of allergic dermatitis developing after a contact exposure of the skin to the substance. A violated intactness of the skin integument that may be responsible for the allergic reaction. In general, this substance is not sensitizing. Reference: OECD SIDS (2004).
---------------	------	--

· 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
Mercaptan Terminated Polymer-non hazardous

Mutagenicity	(No data available)
--------------	---------------------

(Contd. on page 9)

US

Safety Data Sheet
acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 8)

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

Mutagenicity (No data available)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Mutagenicity negative (Chinese Hamster) (In Vitro (AMES Test))
negative (Chinese Hamster) (In Vitro (Chromosomal aberration in ovary cells))
Reference: Cabot (M)SDS (2012).

112945-52-5 silicon dioxide, chemically prepared

Mutagenicity negative (-)
Inhalation studies show positive results in mice with low incidence of benign tumors and negative result in rat. The substance is not listed as a carcinogen by NTP, OSHA, or ACGIH. Classified as a Group 3 Carcinogen by IARC.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

Potential Health Effect(s): No further 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)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Carcinogenicity (Test species: n/a) (Not listed by IARC, NTP, OSHA or ACGIH)

112945-52-5 silicon dioxide, chemically prepared

Carcinogenicity negative (salmonella typhimurium)
In Vitro (Ames Test) - Negative with and without metabolic activation.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

negative (Chinese Hamster)
In Vitro (HGPR Assay in CHO cells) - Negative with and without metabolic activation.
In Vitro (Chromosomal aberration in CHO cells) - Negative with and without metabolic activation.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

negative (Escherichia coli)
In Vitro (Reverse Mutation Assay) - Negative with and without metabolic activation.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

negative (Human)
In Vitro (Cytogenetic Assay in human embryonic lung cells) - negative without metabolic activation.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

negative (rat)
In Vitro (Unscheduled DNA synthesis in rat hepatocytes) - Negative with and without metabolic activation.
In Vivo (Cytogenic Assay) - Negative
In Vivo (Dominant Lethal) - Negative
In Vivo (Host Mediated Assay) - Negative
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

negative (Saccharomyces cerevisiae)
In Vitro (Gene mutation) - negative without metabolic activation.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

Potential Health Effect(s): Not a known Carcinogen.

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)

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 9)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Reproductive Toxi. (No data available)

112945-52-5 silicon dioxide, chemically prepared

Reproductive Toxi. (Hamster)

NOAEL (Maternal toxicity, 14 days) \geq 1600 mg/kg/day
NOAEL (Teratogenicity, 14 days) \geq 1600 mg/kg/day
No clearly discernible effect on nidation or on maternal or fetal survival.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

(mouse)

NOAEL (Maternal toxicity, 20 days) = 1340 mg/kg/day
NOAEL (Teratogenicity, 20 days) = 1340 mg/kg/day
No clearly discernible effect on nidation or on maternal or fetal survival.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

(rat)

NOAEL (Maternal toxicity, 20 days) = 1350 mg/kg/day
NOAEL (Teratogenicity, 20 days) = 1350 mg/kg/day
No clearly discernible effect on nidation or on maternal or fetal survival.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

(rabbit)

NOAEL (Maternal toxicity, 29 days) = 1600 mg/kg/day
NOAEL (Teratogenicity, 29 days) = 1600 mg/kg/day
No clearly discernible effect on nidation or on maternal or fetal survival.
Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

· **Potential Health Effect(s):** No further 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)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

STOT-Single (dynamic) (No data available)

· **Potential Health Effect(s):** No further 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)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

STOT-Repeated (No data available)

· **Potential Health Effect(s):** No further 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)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Aspiration Hazard (No data available)

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

(Contd. on page 11)

Safety Data Sheet

acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 10)

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

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).

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Algae Toxicity	> 10000 mg/l (Scenedesmus subspicatus) (ErC50 (24 hrs), OECD 201)
Crustacean Toxicity	> 1000 mg/l (Daphnia magna (water flea)) (EC50 (24 hrs), OECD 202)
Fish Toxicity	> 10000 mg/l (Brachydanio rerio (Zebra fish)) (LC50 (96 hrs), OECD 203) Reference: Cabot (M)SDS (2012).

112945-52-5 silicon dioxide, chemically prepared

Algae Toxicity (static)	10000 mg/l (Brachydanio rerio (Zebra fish)) (LC0 (96 hrs), OECD TG 203) Reference: OECD SIDS (2004) and IUCLID Dataset (2004).
Crustacean Toxicity (static)	>10000 mg/l (Daphnia magna (water flea)) (EC50 (24 hrs), OECD TG 202) Reference: OECD SIDS (2004) and IUCLID Dataset (2004).
Fish Toxicity	10000 mg/l (Scenedesmus subspicatus) (NOEC) Reference: OECD SIDS (2004) and IUCLID Dataset (2004).

· **Aquatic Environmental Toxicity Assessment:** Toxic to aquatic life with long lasting effects.

· **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).

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

Biodegradation	(No data available)
Persistence	(Test species: n/a) (The substance is not persistent) Reference: Canada DSL (2007).
Photodegradation	(No data available)
Stability in water	(No data available)

(Contd. on page 12)

Safety Data Sheet
acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 11)

112945-52-5 silicon dioxide, chemically prepared

Biodegradation	negative (-) Being an inorganic substance, it is determined not biodegradable. Reference: OECD SIDS (2004) and Canada DSL (2007).
Photodegradation	positive cm ³ /molecule-sec (-) The substance is persistent. Reference: Canada DSL (2007).
Stability in water	negative (-) Being an inorganic substance, it is determined not bioconcentrated. Reference: OECD SIDS (2004) and Canada DSL (2007).

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).

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

BCF	(No data available) (The substance is not bioaccumulative) Reference: Canada DSL CCR (2011).
Koc	(No data available)
LogPow	(No data available)

112945-52-5 silicon dioxide, chemically prepared

Environment fate	negative (-) Based on the chemical nature of the substance, which is inorganic and has highly stable Si-O bond, there are no transformation expected under environmental conditions. Reference: OECD SIDS (2004) and IUCLID Dataset (2004).
------------------	---

Degradability 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.

Safety Data Sheet

acc. to OSHA HCS





Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 12)

14 Transport information

· UN-Number	UN3082
· DOT, ADR, IMDG, IATA	
· UN Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s. (Mercaptan Terminated Polymer-non hazardous, Tertiary Amine)
· DOT, ADR, IMDG, IATA	
· 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	III
· DOT, ADR, IMDG, IATA	
· 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 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

(Contd. on page 14)

Safety Data Sheet

acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 13)

· 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. (Mercaptan Terminated Polymer-non hazardous, 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 | 5-<10%

· 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

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)

112945-52-5 | silicon dioxide, chemically prepared

3

· 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.

(Contd. on page 15)

Safety Data Sheet

acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 14)

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%)

67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
112945-52-5	silicon dioxide, chemically prepared

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
 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
 HSNOCID: 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

(Contd. on page 16)

US

Safety Data Sheet acc. to OSHA HCS

Print Date 03/27/2015

Revision Date 03/27/2015

Trade Name: EP1026T3 B

(Contd. of page 15)

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

Date of preparation / last revision 03/27/2015 / 2

US