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· **Product Identifier**
· **Trade Name: EP11HT GRAY 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.

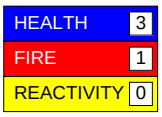
· **Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

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

Health = 3
Fire = 1
Reactivity = 0

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

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



Health = 3
Fire = 1
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**

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	60-70%
CAS: 1317-65-3 EINECS: 215-279-6 RTECS: EV 9580000	Calcium Carbonate	30-40%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	5-<10%

· **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.
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**
Remove all contaminated clothing and wash before reuse.
Wash contaminated skin with water and soap and rinse thoroughly.
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.
Seek medical treatment in case of complaints.

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

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

· **Indication of any Immediate Medical Attention and Special Treatment Needed**
After frequent or high intense exposure, the following medical tests are recommended:
eye tests
skin tests
Check section 11 Toxicological Information for further relevant information.

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

*
5 Fire-fighting measures

· **Extinguishing Media**

· **Suitable Extinguishing Agent(s)**
Use fire fighting measures and extinguishing agents that suit the environment.
In case of fire, suitable extinguishing agents are:
Alcohol resistant foam.
Dry chemical or fire-extinguishing powder.
Carbon dioxide (CO_2).
Water spray or water fog.

· **Unsuitable Extinguishing Agent(s)** 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.
No information available.
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:
Ammonia gas may be liberated at high temperatures.
hydrocarbons
nitric acid
Carbon oxides, Nitrogen oxides, and Hydrogen if mixed with metals.
Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.
Calcium oxide (CaO)
Silicon oxide (SiO_2)
Calcium oxide (CaO)

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· **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.

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6 Accidental release measures

· **Personal Precautions**
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.

· **Environmental Precautions**
Keep away from sewage system or other water courses; do not penetrate ground/soil.
Inform respective authorities in case of any seepage to the environment.

· **Cleaning Up Methods**
Ensure adequate ventilation.
Eliminate all ignition sources.
Keep unauthorized personnel away.
For large spills:
Shut off source of leak if safe to do so.
Dike and contain.
Remove with vacuum trucks or pump to storage/salvage vessels.
Allow molten product to cool.
Absorb residues with liquid-binding materials.
For small spills:
Ventilate and wash area after clean-up is complete.
Store in a sealed containers for disposal.
Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.
Dispose contaminated chemicals as waste according to Section 13.

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

*
7 Handling and storage

· **Handling**
· **Precautions for Safe Handling**
Obtain special instruction before use; do not handle until all safety precautions have been read and understood.
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during handling.
Wear respiratory protection when handling.
Keep away from incompatible material(s).
Avoid any release into the environment.
Observe all the personal protection requirements in Section 8.
· **Information about Protection Against Explosions and Fires**
Will not burn unless preheated.
Keep away from heat, sparks, open flame and other ignition sources during handling.

· **Storage**
· **Requirements to be Met by Storerooms and Receptacles**
Store in a well-ventilated place; provide ventilation for receptacles.
Keep stored in accordance with local, regional, national, and international regulations.
· **Information about Storage in One Common Storage Facility**
Store away from incompatible material(s).
Store away from foodstuffs.
Avoid release to the environment.

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

*
8 Exposure controls/personal protection

· **Engineering Measures or Controls**

· Exposure Limit Values that Require Monitoring at the Workplace	
1317-65-3 Calcium Carbonate	
TEEL	Short-term value: 15.0 mg/m³ Long-term value: 60.0 mg/m³ SCAPA, 2008

· **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.
Avoid any contact with the eye.
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.
Suggested respirator type(s):
Full Facepiece APR with high efficiency filters
Self-contained breathing apparatus (SCBA)

· **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**
Where the potential for over-exposure exists, the following protective work clothing is recommended:
Tyvek® Coveralls

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

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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:** Beige

· **Odor:** Amine-like

· **Odor Threshold:** Not determined.

· **PH-Value at 20 °C (68 °F):** > 7

· **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.

· **Density at 25 °C (77 °F):** 1.27 g/cm³ (10.598 lbs/gal)

· **Solubility in or Miscibility with**

· **Water:** Soluble.

· **Viscosity:**

· **Dynamic at 20 °C (68 °F):** 550000 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 ignite on contact with fluorine.
No further relevant information available.

· **Incompatible Material(s)**
Oxidizing agents, Acids, Cyanides
Strong reducing agents
Acid anhydrides
Strong bases
Hydrogen fluoride (HF)
Catechol

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Alum, Fluorine, Ammonium salts, Mercury/hydrogen mixture, and Magnesium

· **Hazardous Decomposition Product(s)**
Irritating fumes
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		
1317-65-3 Calcium Carbonate		
Oral	LD50	6450 mg/kg (rat) Reference: Imerys (M)SDS (2008).
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).

· **Potential Health Effect(s):**
While not a classified acute oral hazard, the product may cause the following symptom(s):
See acute inhalative effect(s) for further information

· Dermal		
1317-65-3 Calcium Carbonate		
Dermal	LD50	(-) No data available.
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.

· **Potential Health Effect(s):**
Not a classified acute dermal hazard.
See acute inhalative effect(s) for further information.

· Inhalative		
1317-65-3 Calcium Carbonate		
Inhalative	LC50/4 h	(-) No data available.
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.

· **Potential Health Effect(s):**
While not a classified inhalative acute toxicity hazard, the product may cause the following symptoms:
Silicosis
Tuberculosis
Decreased pulmonary function

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· 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
1317-65-3 Calcium Carbonate	
Corrosion/Irritation	moderately (-) The substance is moderately irritating based on the PH = 9.5 with concentration of 50g/L of water at 20C. moderately (rabbit) (Draize test) 500 mg/24h, the pure substance shows no irritating effect, however, the impurities or degradation products may lead to irritant effects on the sweating skin due to alkalinity. Reference: IUCLID dataset of CAS No. 471-34-1 (2000).
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).

· Potential Health Effect(s):
Causes skin irritation.
In contact with skin, may cause:
redness and pain

· Eye Serious Damage or Irritation

1317-65-3 Calcium Carbonate	
Damage/Irritation	slightly (Human) The substance is slightly irritating to the eyes. Reference: IUCLID Dataset of CAS No. 471-34-1 (2000). not irritating (rabbit) No toxic effect when applied to surface of rabbit eyes Reference: ACToR of CAS No. 471-34-1 (2010).
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).

· Potential Health Effect(s):
Causes serious eye irritation.
In contact with eye, may cause:
redness and pain

· Respiratory or Skin Sensitization

1317-65-3 Calcium Carbonate		
Sensitization	Skin	(-) No data available.
	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)

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· **Potential Health Effect(s):** 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**

1317-65-3 Calcium Carbonate	
Mutagenicity	negative (-) The pure substance is not listed as a carcinogen by NTP, IARC or OSHA. Reference: Imerys (M)SDS (2008).
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).

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

· **Carcinogenicity**

1317-65-3 Calcium Carbonate	
Carcinogenicity	negative (salmonella typhimurium) (Preincubation) In Vitro - Negative with and without metabolic activation. Reference: NLM TOXNET of CAS No. 471-34-1 (2010).
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)

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

· **Reproductive Toxicity**

1317-65-3 Calcium Carbonate	
Reproductive Toxi.	(rat) Up to 1.25% diet of the substance for 6 weeks prior to mating and during gestation and found no adverse effects. Reference: ACToR of CAS No. 471-34-1 (2010).
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	
Reproductive Toxi.	(No data available)

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

· **Specific Target Organ Toxicity - Single Exposure**

1317-65-3 Calcium Carbonate	
STOT-Single	(Human) Inhalation 0.005 mg/L for 3 hours: target organs - systemic toxicity May affect nasal function and cause nasal symptoms. Ingested up to 15g of the substance: target organs - systemic toxicity Symptoms included: fatigue, anorexia, nausea and vomiting, an elevated blood pressure, hemoconcentration, leukocytosis, metabolic alkalosis, elevated body weight and hypokalemia. Reference: ACToR of CAS No. 471-34-1 (2010). (rat) Exposed to 0.0812 mg/L for 90 minutes/ after 21 hr. No effect on lung weight, macrophage concentration, or histopathology. Reference: ACToR of CAS No. 471-34-1 (2010).
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.
Some target organs may be exclusive due to low concentration of the hazardous component(s).

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· **Specific Target Organ Toxicity - Repeated Exposure**

1317-65-3 Calcium Carbonate	
STOT-Repeated	(Human) Target organs - Systemic toxicity Symptoms: Infrequent instances of hypercalcemia with alkalosis, calcinosis, azotemia, renal dysfunction, GI hemorrhage and vomiting or aspiration through nasogastric tube seem to predispose to the disorder. Reference: ACToR of CAS No. 471-34-1.
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**

1317-65-3 Calcium Carbonate	
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.

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

*
12 Ecological information

· **Aquatic Environmental Toxicity**

1317-65-3 Calcium Carbonate	
Algae Toxicity (static)	56000 mg/l (Gambusia affinis (western mosquitofish)) (LC50 (24 - 96 hrs)) Reference: ACToR of CAS No. 471-34-1 (2010). (Poecilia Latipinna (Sailfin molly)) Exposure period: 96 hrs. NOEC > 200 mg/L Reference: IUCLID Dataset of CAS No. 471-34-1 (2000).
Crustacean Toxicity	(-) The substance is not toxic to aquatic organisms. Reference: Canada DSL of CAS No. 471-34-1 (2007).
Fish Toxicity	(-) The substance is not toxic to aquatic organisms. Reference: Canada DSL of CAS No. 471-34-1 (2007).
Micro-organism toxi	(-) The substance is not toxic to aquatic organisms. Reference: Canada DSL of CAS No. 471-34-1 (2007).
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).

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

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· Degradability and Stability

1317-65-3 Calcium Carbonate

Biodegradation	(-) The test is not applicable since this substance is inorganic and not soluble in water. Reference: IUCLID Dataset of CAS No. 471-34-1 (2000).
Photodegradation	positive cm^3/molecule-sec (-) The substance is persistent. Reference: ACToR of CAS No. 471-34-1 (2010).
Stability in water	(-) No data available.

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)

· Bioaccumulation and Distribution

1317-65-3 Calcium Carbonate

BCF	(-) No data available.
Environment fate	(-) No data available.
Koc	(-) No data available.
LogPow	(-) No data available.

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)

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

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

*
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.

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· **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)

· **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:** 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

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· **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), 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)**

1317-65-3	Calcium Carbonate	A, C	30-40%
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)**

1317-65-3	Calcium Carbonate
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
14808-60-7	Quartz
112-24-3	Triethylenetetramine

· **Proposition 65**
· **Chemicals Known to Cause Cancer**
This product may also contain extremely small amounts of one or more naturally occurring materials known to the State of California to cause cancer, birth defects or other reproductive harm.

14808-60-7	Quartz

· **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)**

14808-60-7	Quartz	1

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· **NTP (National Toxicology Program)**

14808-60-7	Quartz	K

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

14808-60-7	Quartz	A2

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

14808-60-7	Quartz

· **International Regulation Lists**

· **Canadian Domestic Substance Listings:**

1317-65-3	Calcium Carbonate
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
14808-60-7	Quartz
112-24-3	Triethylenetetramine

· **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

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

1317-65-3	Calcium Carbonate
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
14808-60-7	Quartz
112-24-3	Triethylenetetramine

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

1317-65-3	Calcium Carbonate
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
14808-60-7	Quartz
112-24-3	Triethylenetetramine

· **Korean Existing Chemical Inventory:**

1317-65-3	Calcium Carbonate
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
14808-60-7	Quartz
112-24-3	Triethylenetetramine

· **European Pre-registered substances:**

1317-65-3	Calcium Carbonate
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
14808-60-7	Quartz
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.

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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

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· **Contact:** msds@resinlab.com

· **Abbreviations and acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DOT: US Department of Transportation
HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System
IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)
ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)
IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)
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
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
SARA: US Superfund Amendments and Reauthorization Act
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)
TSCA: US Toxic Substance Control Act
ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH
IUCLID: EU REACh International Uniform Chemical Information Database
NLM TOXNET: US National Library of Medicine Toxicology Data Network
ACToR: US EPA Aggregated Computational Toxicology Resource
BCF: Bioconcentration Factor
CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System
CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform
DSL: Canada Domestic Substance List
ESIS: European Chemical Substances Information System
HSDB: US NLM TOXNET Hazardous Substances Databank
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)
ICSC: International Chemical Safety Cards
Koc: Partition coefficient, soil Organic Carbon to water
NITE: National Institute of Technology and Evaluation, Japan
OECD: Organisation for Economic Co-operation and Development
RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)
RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)
RTECS: US Registry of Toxic Effects of Chemical Substances
SIDS: OECD existing chemicals Screening Information Data Sets
SVHC: EU ECHA Substance of Very High Concern
TOXLINE: US NLM bibliographic database search system

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