

## Safety Data Sheet

acc. to OSHA HCS

Printing date 10/19/2017

Reviewed on 10/19/2017

### 1 Identification

- **Product identifier**
  - **Trade name:** EP11HT GRAY B
  - **Application of the substance / the mixture:** Epoxy Hardener
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
ResinLab, LLC  
N109 W13300 Ellsworth Drive  
Germantown, WI 53022  
1-877-259-1669  
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

- **Classification of the substance or mixture**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
    - **Hazard pictograms**  

  
 GHS05    GHS07
    - **Signal word** Danger
    - **Hazard-determining components of labeling:**  
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine  
Triethylenetetramine
    - **Hazard statements**  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.
    - **Precautionary statements**  
Wash thoroughly after handling.  
Wear protective gloves / eye protection / face protection.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
  - **Classification 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	Health = 3
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
- **Dangerous components:**

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CAS: 68082-29-1 NLP: 500-191-5	Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Skin Sens. 1, H317	50-60%
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%
CAS: 112-24-3 EINECS: 203-950-6 Index number: 612-059-00-5 RTECS: YE6650000	Triethylenetetramine Skin Corr. 1B, H314 Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	2.5-5%
CAS: 14808-60-7 EINECS: 238-878-4 RTECS: VV 7330000	Quartz	0.1-1%

• **Additional information:**

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

#### 4 First-aid measures

• **Description of first aid measures**

• **General information:**

Keep warm, position comfortably and cover well.  
Immediately remove any clothing soiled by the product.

• **After inhalation:**

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

• **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.  
Remove all contaminated clothing and wash before reuse.  
If skin irritation or rash occurs, get medical advice/attention.

• **After eye contact:**

Rinse opened eye for 10-15 minutes under running water. Then consult a doctor.  
Remove contact lenses if present and easy to do so; continue rinsing.  
Do not put any ointments, oils or medication in eyes without specific instructions.  
Get medical attention.

• **After swallowing:**

If victim is unconscious; never give anything by mouth.  
If victim is conscious, rinse out mouth and give two glasses of water.  
Call a doctor immediately.

• **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
Check section 11 Toxicological Information for further relevant information.

#### 5 Fire-fighting measures

• **Extinguishing media**

• **Suitable extinguishing agents:**

Use fire fighting measures that suit the environment.  
Carbon dioxide  
Alcohol resistant foam  
dry chemical  
Limestone powder

• **For safety reasons unsuitable extinguishing agents:** No relevant information.

• **Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Ammonia gas may be liberated at high temperatures.  
hydrocarbons  
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.

• **Advice for firefighters**

• **Protective equipment:**

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.

#### 6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.  
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.

• **Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

• **Methods and material for containment and cleaning up:**

For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.

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For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Use neutralizing agent if necessary.  
 Dispose contaminated material as waste according to item 13.

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### 7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

- Keep away from incompatible material(s).
    - Avoid any release into the environment.
    - Do not breathe dust created by cutting, sanding, grinding or machining.
    - For industrial or professional use only
    - Do not breathe dust/fumes/mist/vapor/spray.
    - Avoid contact with eyes, skin and clothing.
    - Keep away from heat, sparks, flames and ignition sources.
    - Observe all the personal protection requirements in Section 8.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

- Provide ventilation for receptacles.
      - Keep stored in accordance with local, regional, national, and international regulations.

### 8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

#### 1317-65-3 Calcium Carbonate

TEEL	Short-term value: 15.0 mg/m <sup>3</sup> Long-term value: 60.0 mg/m <sup>3</sup> SCAPA, 2008
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#### 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

OSHA PEL	Short-term value: 15 mg/m <sup>3</sup>
US ACGIH	Short-term value: 10 mg/m <sup>3</sup>

#### 112-24-3 Triethylenetetramine

WEEL	Long-term value: 6 mg/m <sup>3</sup> , 1 ppm Skin
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#### 14808-60-7 Quartz

PEL	see Quartz listing
REL	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

- **Additional Occupational Exposure Limit Values for possible hazards during processing:** None.

- **Exposure controls**

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Be sure to clean skin thoroughly after work and before breaks.
      - Keep away from foodstuffs, beverages and feed.
      - Immediately remove all soiled and contaminated clothing.
      - Avoid contact with the eyes and skin.

- **Personal Protective Equipment (PPE)**

- **Breathing equipment:**

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

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

- **Protection of hands:**

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**



Chemical resistant gloves

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· **Eye protection:**

Safety Glasses with side shields

· **Body protection:** Appropriate chemical resistant clothing.· **Limitation and supervision of exposure into the environment**

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**· **General Information**· **Appearance:**

- **Form:** Pasty
- **Color:** Beige
- **Odor:** Amine-like
- **Odor threshold:** Not determined.

· **pH-value:** Not determined.· **Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** >200 °C (>392 °F)

· **Flash point:** >185 °C (>365 °F)· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** Not determined.· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:**

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapor pressure:** Not determined.· **Vapor Density:** not determined· **Density at 20 °C (68 °F):** 1.25 g/cm<sup>3</sup> (10.43 lbs/gal)· **Relative density:** Not determined.· **Vapor density:** Not determined.· **Evaporation rate:** Not determined.· **Solubility in / Miscibility with**· **Water:** Fully miscible.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:**· **Dynamic:** Not available.· **Kinematic:** Not available.

### 10 Stability and reactivity

· **Reactivity** Not a regulated physical hazard under GHS.· **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.· **Thermal decomposition / conditions to be avoided:**

To avoid thermal decomposition do not overheat.  
 No decomposition if used and stored according to specifications.

· **Possibility of hazardous reactions** In contact with incompatible materials.· **Conditions to avoid** Keep away from heat, sparks, flame and any other ignition sources.· **Incompatible materials:**

reducing agents  
 acid chlorides, acid anhydrides, hypochlorites  
 Oxidizing agents  
 Strong bases  
 Acids

· **Hazardous decomposition products:**

Possible in traces.  
 Irritating fumes  
 Refer to section 5.

· **Additional information:**

As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

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### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**68082-29-1 Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

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

Oral	LD50	>5,000 mg/kg (rat)
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**112-24-3 Triethylenetetramine**

Oral	LD50	2,500 mg/kg (rat)
Dermal	LD50	550 mg/kg (rabbit)

· **Primary irritant effect:**

While not a classified inhalative acute toxicity hazard, the product may cause the following symptoms:

shortness of breath

sore throat

wheezing

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Strong irritant with the danger of severe eye injury.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· **Carcinogenic categories**

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

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability:** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No data available.

· **Mobility in soil:** No further relevant information available.

· **Additional ecological information:** The product is non-rapid degradable, and low or not highly bioaccumulative.

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **Results of PBT and vPvB assessment**

· **PBT:** None of the ingredients is listed.

· **vPvB:** None of the ingredients is listed.

· **Other adverse effects:** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Dispose of according to your local waste regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· **UN-Number**

· **DOT**

· **IMDG, IATA**

not regulated  
UN3082

· **UN proper shipping name**

· **DOT**

· **IMDG, IATA**

not regulated  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Polyamines)

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**· Transport hazard class(es)**
**· DOT**
**· Class**

not regulated

**· IMDG**

**· Class**
**· Label**
9 Miscellaneous dangerous substances and articles  
9
**· IATA**

**· Class**
**· Label**
9 Miscellaneous dangerous substances and articles  
9
**· Packing group**
**· DOT**

not regulated

**· IMDG, IATA**

III

**· Environmental hazards:**

Not applicable.

**· Special precautions for user**

Warning: Miscellaneous dangerous substances and articles

**· EMS Number:**

F-A, S-F

**· Segregation groups**

Alkalis

**· Stowage Category**

A

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

Not applicable.

**· Transport/Additional information:**
**· DOT**
**· Remarks:**

Not regulated for transport in US in packaging less than 5L.

**· UN "Model Regulation":**
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES,  
LIQUID, N.O.S. (POLYAMINES), 9, III

### 15 Regulatory information

**· Safety, health and environmental regulations/legislation specific for the substance or mixture**
**· SARA Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**· SARA Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

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

1317-65-3	Calcium Carbonate	A, C	30-40%
112-24-3	Triethylenetetramine	A	2.5-5%

**· 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:**

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
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**· 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.

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· <b>TLV (Threshold Limit Value established by ACGIH)</b>	
14808-60-7	Quartz A2
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
14808-60-7	Quartz
· <b>International Regulation Lists</b>	
· <b>Chinese Chemical Inventory of Existing Chemical Substances:</b>	
All ingredients are listed.	
· <b>GHS label elements</b> GHS label elements	
· <b>National regulations:</b>	
· <b>Japanese Existing and New Chemical Substance List:</b>	
1317-65-3	Calcium Carbonate
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
112-24-3	Triethylenetetramine
14808-60-7	Quartz
· <b>Korean Existing Chemical Inventory:</b>	
All ingredients are listed.	
· <b>European Pre-registered substances:</b>	
All ingredients are listed.	
· <b>EINECS List:</b>	
1317-65-3	Calcium Carbonate
112-24-3	Triethylenetetramine
14808-60-7	Quartz
· <b>ELINCS List:</b>	
None of the ingredients is listed.	
· <b>REACH - Substances of Very High Concern (SVHC) List:</b>	
None of the ingredients is listed.	
· <b>Restriction of Hazardous Substances Directive (RoHS) list:</b>	
None of the ingredients is listed.	
· <b>Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.	

**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 Development Department
- **Contact:** msds@resinlab.com
- **Date of preparation / last revision** 10/19/2017 / 5
- **\* Data compared to the previous version altered.**