

## Safety Data Sheet acc. to OSHA HCS





Printing date 03/15/2018

Reviewed on 03/15/2018

### 1 Identification

- **Product identifier**
  - **Trade name:** EP1296 Black B
  - **Recommended use:** Epoxy Hardener
  - **Restrictions on use:** For industrial use only
- **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 Corr. 1A H314 Causes severe skin burns and 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, tall-oil, reaction products with tetraethylenepentamine  
Tetraethylenepentamine
  - **Hazard statements**  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.
  - **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Wear protective gloves / eye protection / face protection.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a poison center/doctor.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
  - **NFPA System**
    - **NFPA ratings (scale 0 - 4)**  

 Health = 2  
Fire = 1  
Reactivity = 0  
 NFPA special hazards (water reactivity and oxidizing property): None
  - **HMIS System**
    - **HMIS-ratings (scale 0 - 4)**  

 Health = 2  
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**

- **Dangerous components:**

|  |                   |        |
|--|-------------------|--------|
| CAS: 1317-65-3<br>EINECS: 215-279-6<br>RTECS: EV 9580000 | Calcium Carbonate | 50-60% |
|--|-------------------|--------|

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|--|---|--------------------|
| CAS: 68953-36-6<br>EINECS: 273-201-6   | Fatty acids, tall-oil, reaction products with tetraethylenepentamine<br>-----<br>Skin Corr. 1A, H314<br>Aquatic Acute 1, H400<br>Skin Sens. 1, H317     | 30-40%             |
| CAS: 112-57-2<br>EINECS: 203-986-2<br>Index number: 612-060-00-0<br>RTECS: KH8585000 | Tetraethylenepentamine<br>-----<br>Skin Corr. 1B, H314<br>Aquatic Chronic 2, H411<br>Acute Tox. 4, H312   | ≥2.5-<5%           |
| CAS: 67762-90-7<br>EC number: 614-122-2  | Siloxanes and Silicones, di-Me, reaction products with silica   | 1-2.5%             |
| CAS: 14808-60-7<br>EINECS: 238-878-4<br>RTECS: VV 7330000                            | Quartz  | 0.1-1%             |
| CAS: 71-36-3<br>EINECS: 200-751-6<br>Index number: 603-004-00-6<br>RTECS: EO 1400000 | 1-Butyl alcohol<br>-----<br>Flam. Liq. 3, H226<br>Eye Dam. 1, H318<br>Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335-H336 | ≥0-<0.1%           |

**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.

- Cover wound with sterile dressing. Continue to irrigate until medical care is received. Flush with copious amounts of water.

- Seek medical treatment.

- After eye contact:**

- Rinse opened eye for several minutes under running water.

- Remove contact lenses if present and easy to do so; continue rinsing.

- Hold eyelids apart, irrigate the eye gently and continuously until the patient can receive medical care. If medical care is not promptly available continue to irrigate for one hour.

- 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.

- Do NOT induce vomiting.

- Get medical attention

- If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs.

- 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.

- Alcohol resistant foam

- Carbon dioxide

- dry chemical

- Dry sand

- Special hazards arising from the substance or mixture**

- Will not burn unless preheated.

- In case of fire, the following can be released:

- May generate ammonia gas.

- Nitrogen oxides (NOx)

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

- Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)

- Advice for firefighters**

- Protective equipment:**

- As 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 clothing.

- Wear protective equipment. Keep unprotected persons away.

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

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.  
 Keep away from incompatible material(s).  
 Avoid any release into the environment.  
 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><br>Long-term value: 60.0 mg/m <sup>3</sup><br>SCAPA, 2008 |
|------|--|

**112-57-2 Tetraethylenepentamine**

|      |  |
|------|--|
| WEEL | Long-term value: 5 mg/m <sup>3</sup><br>Skin; DSEN |
|------|--|

**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> |

**14808-60-7 Quartz**

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

**71-36-3 1-Butyl alcohol**

|     |   |
|-----|---|
| PEL | Long-term value: 300 mg/m <sup>3</sup> , 100 ppm            |
| REL | Ceiling limit value: 150 mg/m <sup>3</sup> , 50 ppm<br>Skin |
| TLV | Long-term value: 61 mg/m <sup>3</sup> , 20 ppm              |

- **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.  
 Wash hands before breaks and at the end of work.  
 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

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- Material of gloves



Chemical resistant gloves

- 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:

Liquid

- Color:

Cream colored

- Odor:

Amine-like

- Odor threshold:

Not determined.

- pH-value:

Not determined.

- Change in condition

- Melting point/Melting range:

Undetermined.

- Boiling point/Boiling range:

Undetermined.

- Flash point:

&gt;195 °C (&gt;383 °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):

1.4 g/cm<sup>3</sup> (11.68 lbs/gal)

- Relative density

Not determined.

- Vapor density

Not determined.

- Evaporation rate

Not determined.

- Solubility in / Miscibility with

- Water:

Slightly soluble.

- 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 May slowly corrode copper, zinc, aluminum and galvanized surfaces.

- Conditions to avoid Keep away from heat, sparks, flame and any other ignition sources.

- Incompatible materials:

nitrosamines may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

Oxidizing agents

Sodium hypochlorite, Nitrous acid and other nitrosating agents

Acids

- Hazardous decomposition products:

Possible in traces.

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Irritating fumes

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### 11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

**1317-65-3 Calcium Carbonate**

Oral LD50 6,450 mg/kg (rat)

Dermal LD50 mg/kg  
No data available.Inhalative LC50/4 h mg/l  
No data available.
**68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine**

Oral LD50 mg/kg (rat) (LD50 &gt; 2000 mg/kg)

Dermal LD50 mg/kg (rabbit) (LD50 ≥ 8550 mg/kg)

**112-57-2 Tetraethylenepentamine**

Oral LD50 2,100 mg/kg (white rats) (Classified as Cat 4 by EU)

Dermal LD50 660 mg/kg (rabbit)

Inhalative LC50/4 h mg/l (Test species: n/a)  
Symptoms include mucosal irritations, cough, shortness of breath, inhalation may lead to formation of oedemas in the respiratory tract. Corrosive to respiratory system.
**67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica**

Oral LD50 &gt;5,000 mg/kg (rat) (test method not specified)

Dermal LD50 mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data)

Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on acute oral data)

- Primary irritant effect:

- on the skin: Strong caustic effect on skin and mucous membranes.

- on the eye: Strong caustic effect.

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

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

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

14808-60-7 Quartz

1

- NTP (National Toxicology Program)

14808-60-7 Quartz

K

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

- Toxicity

- Aquatic toxicity:

**1317-65-3 Calcium Carbonate**

EC50 mg/kg

mg/kg (rabbit) (Draize test)

**68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine**

EC50 mg/kg (No data available)

**112-57-2 Tetraethylenepentamine**

EC50 mg/kg (rabbit) (serious skin burns within 20-30 min of application)

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

EC50 mg/kg (Test species: n/a) (Primary irritation index=0)

- 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:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment

- PBT: None of the ingredients is listed.

- vPvB: None of the ingredients is listed.

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

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### 13 Disposal considerations

· **Waste treatment methods**

· **RCRA Waste:**

71-36-3 1-Butyl alcohol

U031 (n-Butyl alcohol (I))  $\geq 0$ -<0.1%

· **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.

### 14 Transport information

· **UN-Number**

· DOT  
· IMDG, IATA

not regulated  
UN3082

· **UN proper shipping name**

· DOT  
· IMDG

not regulated  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Polyamidoamine, TETRAETHYLENEPENTAMINE),  
MARINE POLLUTANT  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Polyamidoamine, TETRAETHYLENEPENTAMINE)

· IATA

· **Transport hazard class(es)**

· DOT  
· Class

not regulated

· IMDG, IATA



· Class  
· Label

9 Miscellaneous dangerous substances and articles  
9

· **Packing group**

· DOT  
· IMDG, IATA

not regulated  
III

· **Environmental hazards:**

Product contains environmentally hazardous substances:  
Polyamidoamine

· **Special precautions for user**

· **Danger code (Kemler):**  
· **EMS Number:**  
· **Segregation groups**  
· **Stowage Category**

Warning: Miscellaneous dangerous substances and articles  
90  
F-A,S-F  
Alkalis  
A

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

Not applicable.

· **Transport/Additional information:**

· **IMDG**

· **Limited quantities (LQ)**  
· **Excepted quantities (EQ)**

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES,  
LIQUID, N.O.S. (POLYAMIDOAMINE,  
TETRAETHYLENEPENTAMINE), 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):**

71-36-3 1-Butyl alcohol

 $\geq 0$ -<0.1%

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

1317-65-3 Calcium Carbonate

A, C 50-60%

112-57-2 Tetraethylenepentamine

A  $\geq 2.5$ -<5%

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**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 8 (b) Inventory:**

All ingredients are listed.

**Proposition 65**

**Chemicals known to cause cancer:**

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)**

71-36-3 1-Butyl alcohol

D

**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**

**GHS label elements** GHS label elements

**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.

**Chemical safety assessment:** 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** 03/15/2018 / 4

**\* Data compared to the previous version altered.**