

## Safety Data Sheet acc. to OSHA HCS

Printing date 06/02/2017

Reviewed on 06/02/2017

### 1 Identification

- **Product identifier**
  - **Trade name:** EP1026HP 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 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**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Poly[oxy(methyl-1,2-ethanediyl)], a-hydroxy-hydroxy-ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1),2-hydroxy-3-mercaptop
- **Hazard statements**  
H317 May cause an allergic skin reaction.
- **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves.  
IF ON SKIN: Wash with plenty of water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
  - **NFPA System**
    - **NFPA ratings (scale 0 - 4)**



Health = 1  
Fire = 1  
Reactivity = 0

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**

- **Dangerous components:**

CAS: 72244-98-5	Poly[oxy(methyl-1,2-ethanediyl)], a-hydroxy-hydroxy-ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1),2-hydroxy-3-mercaptop Skin Sens. 1B, H317	90-100%
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%

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- **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**
  - **After inhalation:**  
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.  
If skin irritation or rash occurs, get medical advice/attention.
  - **After eye contact:**  
Flush eyes with water for 15 minutes occasionally lifting the upper and lower eyelids. Check for and remove contact lenses.  
Get medical attention.
  - **After swallowing:**  
If victim is unconscious; never give anything by mouth.  
Do NOT induce vomiting.  
Rinse out mouth and then drink plenty of water.  
Get medical attention if you feel unwell.
  - **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:**  
Limestone powder  
Water spray  
Alcohol resistant foam  
Fire-extinguishing powder  
Carbon dioxide
  - **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)  
Sulfur Oxides (SO<sub>x</sub>)
- **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 clothing.  
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
For large spills: remove with vacuum trucks or pump to storage/salvage vessels.  
For small spills: absorb spilled chemical with liquid-binding materials.

### 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.  
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:**  
Keep stored in accordance with local, regional, national, and international regulations.

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### 8 Exposure controls/personal protection

- **Control parameters**

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

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **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.

- Immediately remove all soiled and contaminated clothing.

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

- **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

- **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:**

Clear

- **Odor:**

Sulphurous

- **Odor threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Change in condition**

- **Melting point/Melting range:**

Undetermined.

- **Boiling point/Boiling range:**

Undetermined.

- **Flash point:**

&gt;93 °C (&gt;199 °F)

- **Flammability (solid, gaseous):**

Not determined.

- **Ignition temperature:**

Not determined.

- **Decomposition temperature:**

Not determined.

- **Auto igniting:**

Not determined

- **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):**

1.13 g/cm<sup>3</sup> (9.43 lbs/gal)

- **Relative density**

Not determined.

- **Vapor density**

Not determined.

- **Evaporation rate**

Not determined.

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- **Solubility in / Miscibility with**
  - **Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not determined.
  - **Kinematic:** Not determined.
  - **VOC content:** 0.0 g/l / 0.00 lb/gal

### 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:**  
Strong acids  
Amines  
Strong oxidizing agent
- **Hazardous decomposition products:**  
Possible in traces.  
Refer to section 5.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**

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

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

Oral	LD50	>5000 mg/kg (rat) > 5000 mg/kg Reference: BASF SDS (2015).
Dermal	LD50	not determined mg/kg (read across from 101-68-8) Reference: BASF SDS 2015
Inhalative	LC50/4 h	not determined mg/l (read across from 101-68-8) Reference: BASF SDS 2015

- **Specific symptoms in biological assay:** No relevant information; classification is not possible.
- **Primary irritant effect:** No relevant information; classification is not possible.
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
- **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)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

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

EC50	irritating mg/kg (Test species: n/a) (based on product w/ similar structure/composition) Reference: BASF SDS (2015).
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- **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.

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- **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.

### 14 Transport information

- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>UN-Number</b><br>· DOT, ADN, IMDG, IATA                                     | not regulated   |
| · <b>UN proper shipping name</b><br>· DOT, ADN, IMDG, IATA                       | not regulated   |
| · <b>Transport hazard class(es)</b><br>· DOT, ADN, IMDG, IATA<br>· Class         | not regulated   |
| · <b>Packing group</b><br>· DOT, IMDG, IATA                                      | not regulated   |
| · <b>Environmental hazards:</b>                                                  | Not applicable. |
| · <b>Special precautions for user</b>                                            | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                                  | not regulated   |

### 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)**

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

A | 5-&lt;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.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **International Regulation Lists**

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

All ingredients are listed.

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· **GHS label elements** GHS label elements

· **National regulations:**

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

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· **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.

· **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** 06/02/2017 / 5

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

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