1 Identification

· Product name: EpoxySet Resin - Part A

· Part number:
  145-20000
  145-20005, 145-20015

· Application of the substance / the mixture Epoxy resin

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:
  Allied High Tech Products Inc.
  2376 East Pacifica Place
  USA-RANCHO DOMINGUEZ, CA 90220
  USA
  info@alliedhightech.com

· Information department: Product safety department

· Emergency telephone number:
  During normal opening times: +1 (310) 635-2466
  Chemtrec: +1 (202) 483-7616

2 Hazard(s) identification

· Classification of the substance or mixture

  GHS08 Health hazard

  Muta. 2 H341 Suspected of causing genetic defects.

  Carc. 2 H351 Suspected of causing cancer.

  GHS09 Environment

  Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

  GHS07

  Skin Irrit. 2 H315 Causes skin irritation.

  Eye Irrit. 2A H319 Causes serious eye irritation.

  Skin Sens. 1 H317 May cause an allergic skin reaction.

  STOT SE 3 H335 May cause respiratory irritation.

  Flam. Liq. 4 H227 Combustible liquid.

· Label elements

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)
Product name: EpoxySet Resin - Part A

- Hazard pictograms
  - GHS07
  - GHS08
  - GHS09

- Signal word: Warning

- Hazard-determining components of labeling:
  - reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
  - butyl glycidyl ether

- Hazard statements
  - Combustible liquid.
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause an allergic skin reaction.
  - Suspected of causing genetic defects.
  - Suspected of causing cancer.
  - May cause respiratory irritation.
  - Toxic to aquatic life with long lasting effects.

- Precautionary statements
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from flames and hot surfaces. – No smoking.
  - Avoid breathing dust/fume/gas/mist/vapors/spray
  - Wash thoroughly after handling.
  - Use only outdoors or in a well-ventilated area.
  - Contaminated work clothing must not be allowed out of the workplace.
  - Avoid release to the environment.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If on skin: Wash with plenty of water.
  - 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.
  - IF exposed or concerned: Get medical advice/attention.
  - Call a poison center/doctor if you feel unwell.
  - Specific treatment (see on this label).
  - Take off contaminated clothing and wash it before reuse.
  - If skin irritation or rash occurs: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.
  - Wash contaminated clothing before reuse.
  - In case of fire: Use for extinction: CO2, powder or water spray.
  - Collect spillage.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Store in a well-ventilated place. Keep cool.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- 3 Composition/information on ingredients

- Description: Mixture of the substances listed below with nonhazardous additions.

| Hazardous components and components with occupational exposure limits: |
|-------------------------------------------------|-----------------|
| 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) | 50-100% |
| 2426-08-6 butyl glycidyl ether | 20-25% |
| Flam. Liq. 3, H226; Muta. 2, H341; Carc. 2, H351; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412 |

(Contd. on page 3)
Product name: EpoxySet Resin - Part A

- **4 First-aid measures**
  - **Description of first aid measures**
  - **General information:** Immediately remove any clothing soiled by the product.
  - **After inhalation:**
    Supply fresh air and to be sure 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.
  - **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:** If symptoms persist consult doctor.
  - **Information for doctor:**
    - **Most important symptoms and effects, both acute and delayed**
      Breathing difficulty
      Dizziness
      Coughing
      Allergic reactions
      Nausea
      Dermatitis
      Eye irritation
  - **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

- **5 Fire-fighting measures**
  - **Extinguishing media**
  - **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - **Special hazards arising from the substance or mixture** No further relevant information available.
  - **Advice for firefighters**
  - **Protective equipment:** Wear fully protective suit.

- **6 Accidental release measures**
  - **Personal precautions, protective equipment and emergency procedures**
    Wear protective equipment. Keep unprotected persons away.
    Ensure adequate ventilation
    Keep away from ignition sources
  - **Environmental precautions:**
    Do not allow product to reach sewage system or any water course.
    Do not allow to enter sewers/ surface or ground water.
    Prevent seepage into sewage system, workpits and cellars.
    Inform respective authorities in case of seepage into water course or sewage system.
  - **Methods and material for containment and cleaning up:**
    Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
    Dispose contaminated material as waste according to item 13.
    Ensure adequate ventilation.
  - **Reference to other sections**
    See Section 7 for information on safe handling.
    See Section 8 for information on personal protection equipment.
    See Section 13 for disposal information.

- **7 Handling and storage**
  - **Handling:**
  - **Precautions for safe handling**
    Keep away from heat and direct sunlight.
    Ensure good ventilation/exhaustion at the workplace.
    Open and handle receptacle with care.
    Prevent formation of aerosols.
Product name: EpoxySet Resin - Part A

- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - Requirements to be met by storerooms and receptacles:
      - Protect from sunlight.
      - Store in a dry place. Store in a closed container.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:**
      - Keep receptacle tightly sealed.
      - Store receptacle in a well ventilated area.
    - **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
    - At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>2426-08-6 butyl glycidyl ether</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PEL</strong></td>
</tr>
<tr>
<td><strong>REL</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>TLV</strong></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

- **Exposure controls**
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Wash hands before breaks and at the end of work.
    - Store protective clothing separately.
    - Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device when high concentrations are present.
- **Protection of hands:**
  - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

![Protective gloves]

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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Liquid
      - Color: Light yellow
      - Odor: Characteristic
      - Odor threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
  - Flash point: 73.3 °C (163.9 °F) (Penksy-Martens Closed Cup)
  - Flammability (solid, gaseous): Not applicable.
  - Decomposition temperature: Not determined.
  - Auto igniting: Product is not selfigniting.
  - Danger of explosion: Not determined.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapor pressure at 25 °C (77 °F): 4 hPa (3 mm Hg)
  - Density:
    - Not determined.
  - Relative density:
    - Not determined.
  - Vapor density: 4.5 (Air = 1)
  - Specific gravity: 1.13
  - Evaporation rate: Not determined.
- 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.
- Solvent content: 0.00 %
- VOC content: 0.0 %
- Solids content: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
- Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Product name: EpoxySet Resin - Part A

- Possibility of hazardous reactions: Reacts with considerable heat release with some curing agents.
- Conditions to avoid:
  - Do not mix with alkalis.
  - Keep away from oxidising agents and acidic substances.
  - Keep away from heat.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide
- Additional information: Hazardous decomposition products may form during combustion.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    - 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
      - Oral LD50 30,000 mg/kg (rat)
      - Dermal LD50 23,000 mg/kg (rabbit)
    - 2426-08-6 butyl glycidyl ether
      - Oral LD50 2,050 mg/kg (rat)
      - Dermal LD50 2,520 mg/kg (rabbit)
      - Inhalative LC50/4 h 11 mg/l (ATE)
- Primary chemical irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Irritating effect.
  - Sensitization: Sensitization possible through skin contact.
- Additional toxicological information:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      - 2426-08-6 butyl glycidyl ether 2B
    - 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:
    - EC50 (48 h) 2.1 mg/l (water flea)
    - LC50 (96 h) 1.3 mg/l (daphnia)
    - 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
      - EC50 (48 h) 1.8 mg/l (water flea)
      - LC50 (96 h) 2 mg/l (rainbow trout)
      - ErC50(72h) 11 mg/l (fresh water algae)
      - IC50(18h) 42.6 mg/l (bacteria)
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
  - Ecotoxicological effects:
  - Remark: Toxic for fish

(Contd. of page 7)
13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:** Contact waste processors for recycling information.

- **Uncleaned packaging**
  - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
  - DOT, ADN, IMDG, IATA: not regulated

- **UN proper shipping name**
  - DOT, ADN, IMDG, IATA: not regulated

- **Transport hazard class(es)**
  - DOT, IATA: not regulated
  - Class: not regulated
  - Label: not regulated
  - ADN/R Class: not regulated

- **Packing group**
  - DOT, IMDG, IATA: not regulated

- **Environmental hazards**
  - Marine pollutant: Yes

- **Special precautions for user**
  - Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **UN "Model Regulation"**
  - 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.

  - **Section 313 (Specific toxic chemical listings):**
    - None of the ingredients is listed.

  - **TSCA (Toxic Substances Control Act):**
    - All components have the value ACTIVE.

  - **Hazardous Air Pollutants**
    - None of the ingredients is listed.
**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Environment protection department.
- **Contact:** Kim Dermit
- **Last revision / supersedes version:** 06/08/2020 / 2.0
- **Supersedes date:** 05/01/2020

**Abbreviations and acronyms:**
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Flam. Liq. 3: Flammable liquids – Category 3
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Skin Sens. 1: Skin sensitisation – Category 1
- Muta. 2: Germ cell mutagenicity – Category 2
- Carc. 2: Carcinogenicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.
Safety Data Sheet
acc. to OSHA HCS

Printing date 06/05/2020

Version 2.1

Last revision 06/05/2020

1 Identification
· Product name: EpoxySet Hardener - Part B
  · Part number:
    145-20000
    145-20010, 145-20020
  · CAS Number:
    112-24-3
  · EC number:
    203-950-6
  · Index number:
    612-059-00-5
· Application of the substance / the mixture: Epoxy curing agent
· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Allied High Tech Products Inc.
    2376 East Pacifica Place
    USA-RANCHO DOMINGUEZ, CA 90220
    USA
    info@alliedhightech.com
· Information department: Product safety department
· Emergency telephone number:
  During normal opening times: +1 (310) 635-2466
  Chemtrec: +1 (202) 483-7616

2 Hazard(s) identification
· Classification of the substance or mixture
  ☑️ GHS05 Corrosion
  Skin Corr. 1B   H314   Causes severe skin burns and eye damage.
  Eye Dam. 1   H318   Causes serious eye damage.

  ☑️ GHS07
  Acute Tox. 4   H312   Harmful in contact with skin.
  Skin Sens. 1   H317   May cause an allergic skin reaction.
  Aquatic Chronic 3   H412   Harmful to aquatic life with long lasting effects.

· Label elements
· GHS label elements: The substance is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)
Product name: EpoxySet Hardener - Part B

- Hazard pictograms
  
  GHS05  GHS07

- Signal word Danger

- Hazard-determining components of labeling:
  triethyleneetramine

- Hazard statements
  Harmful in contact with skin.
  Causes severe skin burns and eye damage.
  May cause an allergic skin reaction.
  Harmful to aquatic life with long lasting effects.

- Precautionary statements
  Do not breathe dusts or mists.
  Wash thoroughly after handling.
  Contaminated work clothing must not be allowed out of the workplace.
  Avoid release to the environment.
  Wear protective gloves/protective clothing/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.
  Specific treatment (see on this label).
  Take off contaminated clothing and wash it before reuse.
  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.

### 3 Composition/information on ingredients

- Chemical characterization: Substances

- CAS No. Description
  112-24-3 triethyleneetramine

- Identification number(s)
  - EC number: 203-950-6
  - Index number: 612-059-00-5

### 4 First-aid measures

- Description of first aid measures

- General information:
  Immediately remove any clothing soiled by the product.
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation:
  Supply fresh air and to be sure 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.

- After eye contact:
  Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing:
  Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
    Thermal burns
    Diarrhea

(Contd. on page 3)
Product name: EpoxySet Hardener - Part B

Redness
Swelling
Gastric or intestinal disorders
Allergic reactions
Dermatitis
Eye irritation

* 5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents:
  Carbon dioxide
  Water spray
  Foam
  Use fire fighting measures that suit the environment.
· Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
· Advice for firefighters
· Protective equipment: No special measures required.

* 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
  Keep away from ignition sources
· Environmental precautions:
  Do not allow to enter sewers/surface or ground water.
  Inform respective authorities in case of seepage into water course or sewage system.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Use neutralizing agent.
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

* 7 Handling and storage

· Handling:
· Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
· Information about protection against explosions and fires: No special measures required.
· Conditions for safe storage, including any incompatibilities
· Storage:
  Requirements to be met by storerooms and receptacles:
  Store in a cool location.
  No special requirements.
· Information about storage in one common storage facility: Not required.
· Further information about storage conditions:
  Keep receptacle tightly sealed.
  Store receptacle in a well ventilated area.
· Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.
Product name: EpoxySet Hardener - Part B

· Control parameters
· Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Limit Value</th>
<th>Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>112-24-3 triethyleneetramine</td>
<td>Long-term value: 6 mg/m³, 1 ppm</td>
<td>Skin</td>
</tr>
</tbody>
</table>

· Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:
  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.
  Avoid contact with the eyes and skin.
· Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
· Protection of hands:
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Protective gloves

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
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles

* 9 Physical and chemical properties

· Information on basic physical and chemical properties
· General Information
· Appearance:
  Form: Liquid
  Color: Clear
· Odor: Amine-like
· Odor threshold: Not determined.
· pH-value: 10-11

· Change in condition
  Melting point/Melting range: Undetermined.
  Boiling point/Boiling range: ~278 °C (~532.4 °F)

· Flash point: 135 °C (275 °F) (Pensky-Martens Closed Cup)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 335 °C (635 °F)

(Contd. on page 5)
### 10 Stability and reactivity

*Reactivity* No further relevant information available.

*Chemical stability*

*Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.

*Possibility of hazardous reactions* No dangerous reactions known.

*Conditions to avoid*
- Keep away from oxidising agents and acidic substances.
- Keep away from heat.
- Keep away from alkaline solutions.

*Incompatible materials:* No further relevant information available.

*Hazardous decomposition products:*

- Nitrogen oxides
- Carbon monoxide

### 11 Toxicological information

*Information on toxicological effects*

*Acute toxicity:*

<table>
<thead>
<tr>
<th>LD/LC50 values that are relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>112-24-3 triethylenetetramine</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
</tbody>
</table>

*Primary chemical irritant effect:*

- on the skin: Caustic effect on skin and mucous membranes.
- on the eye:
  - Strong caustic effect.
  - Strong irritant with the danger of severe eye injury.
- Sensitization: Sensitization possible through skin contact.
Product name: EpoxySet Hardener - Part B

· Additional toxicological information:
  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)
    Substance is not listed.
  · NTP (National Toxicology Program)
    Substance is not listed.
  · OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

12 Ecological information

· Toxicity
  · Aquatic toxicity:
    | EC50 (96 h)       | 3.7 mg/l (selenastrum capricornutum) |
    | EC50 (48 h) (static) | 33.9 mg/l (daphnia)       |
  · Persistence and degradability: No further relevant information available.
  · Behavior in environmental systems:
    · Bioaccumulative potential: No further relevant information available.
  · Mobility in soil: No further relevant information available.
  · Ecotoxicological effects:
  · Remark: Harmful to fish
  · Additional ecological information:
  · General notes:
    Water hazard class 2 (Assessment by list): hazardous for water
    Do not allow product to reach ground water, water course or sewage system.
    Must not reach bodies of water or drainage ditch undiluted or unneutralized.
    Danger to drinking water if even small quantities leak into the ground.
    Harmful to aquatic organisms
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.
  · Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation: Contact waste processors for recycling information.

· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.

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

14 Transport information

· UN-Number
  · DOT, IMDG, IATA: UN2259

· UN proper shipping name
  · DOT: Triethylenetetramine
  · IMDG, IATA: TRIETHYLENETETRAMINE
**Safety Data Sheet**

*acc. to OSHA HCS*

**Product name:** EpoxySet Hardener - Part B

(Contd. of page 6)

- **Transport hazard class(es)**
- **DOT**

![DOT Logo]

- **Class**
  - **Label**
    - 8 Corrosive substances

- **IMDG, IATA**

![IMDG Logo]

- **Class**
  - **Label**
    - 8 Corrosive substances

- **Packing group**
  - **DOT, IMDG, IATA**
    - II

- **Environmental hazards:**
  - **Marine pollutant:**
    - No

- **Special precautions for user**
  - **Hazard identification number (Kemler code):**
    - 80
  - **EMS Number:**
    - 8-05
  - **Segregation groups**
    - Alkalis
  - **Stowage Category**
    - B
  - **Stowage Code**
    - SW2 Clear of living quarters.
  - **Segregation Code**
    - SG35 Stow "separated from" acids.

- **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: 1 L
      - On cargo aircraft only: 30 L
    - **Limited quantities (LQ)**
      - 1L
    - **Transport category**
      - 2
    - **Tunnel restriction code**
      - E
  - **IMDG**
    - **Limited quantities (LQ)**
    - 1L
    - **Excepted quantities (EQ)**
      - Code: E2
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml

- **UN "Model Regulation":**
  - UN 2259 TRIETHYLENETETRAMINE, 8, II

(Contd. on page 8)

*5 Regulatory information*

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**

- **Section 355 (extremely hazardous substances):**
  - Substance is not listed.
### Safety Data Sheet

**acc. to OSHA HCS**

**Printing date 06/05/2020**

**Version 2.1**

**Last revision 06/05/2020**

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**Product name: EpoxySet Hardener - Part B**

(Contd. of page 7)

<table>
<thead>
<tr>
<th>Section 313 (Specific toxic chemical listings):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance is not listed.</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>TSCA (Toxic Substances Control Act):</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Air Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance is not listed.</td>
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</table>

<table>
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<tr>
<th>Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemicals known to cause cancer:</td>
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<td>Substance is not listed.</td>
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<th>Chemicals known to cause reproductive toxicity for females:</th>
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<tbody>
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<td>Substance is not listed.</td>
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</tbody>
</table>

<table>
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<th>Chemicals known to cause reproductive toxicity for males:</th>
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</thead>
<tbody>
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<td>Substance is not listed.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemicals known to cause developmental toxicity:</th>
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</thead>
<tbody>
<tr>
<td>Substance is not listed.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical safety assessment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Chemical Safety Assessment has not been carried out.</td>
</tr>
</tbody>
</table>

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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 SDS:** Environment protection department.
- **Contact:** Kim Dermit
- **Last revision / supersedes version:** 06/05/2020 / 2.0
- **Supersedes date:** 05/01/2020

<table>
<thead>
<tr>
<th>Abbreviations and acronyms:</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG: International Maritime Code for Dangerous Goods</td>
</tr>
<tr>
<td>DOT: US Department of Transportation</td>
</tr>
<tr>
<td>IATA: International Air Transport Association</td>
</tr>
<tr>
<td>EINECS: European Inventory of Existing Commercial Chemical Substances</td>
</tr>
<tr>
<td>CAS: Chemical Abstracts Service (division of the American Chemical Society)</td>
</tr>
<tr>
<td>VOC: Volatile Organic Compounds (USA; EU)</td>
</tr>
<tr>
<td>LC50: Lethal concentration, 50 percent</td>
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<tr>
<td>LD50: Lethal dose, 50 percent</td>
</tr>
<tr>
<td>PBT: Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>vPvB: very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>OSHA: Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>TLV: Threshold Limit Value</td>
</tr>
<tr>
<td>PEL: Permissible Exposure Limit</td>
</tr>
<tr>
<td>REL: Recommended Exposure Limit</td>
</tr>
<tr>
<td>Acute Tox. 4: Acute toxicity – Category 4</td>
</tr>
<tr>
<td>Skin Corr. 1B: Skin corrosion/irritation – Category 1B</td>
</tr>
<tr>
<td>Eye Dam. 1: Serious eye damage/eye irritation – Category 1</td>
</tr>
<tr>
<td>Skin Sens. 1: Skin sensitisation – Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3</td>
</tr>
</tbody>
</table>

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

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