1. Product Identification

Product name: EZ-Fillet Hardener, Part B
SDS Number: 1430B00
Product type: Epoxy curing agent.
Recommended use of the chemical and restrictions on use: Directed at, but not limited to, the filling and reinforcing of wood structures.
Restrictions: None known.

Manufacturer/Supplier information

Company name: SYSTEM THREE RESINS, INC.
Address: 8517 Commerce Place Dr NE
Lacey, WA 98516
United States
Telephone: 1-253-333-8118
Website: www.systemthree.com
Email: support@systemthree.com
Emergency Contact: CHEMTEL (U.S. and CANADA) 1-800-704-9215
CHEMTEL (Outside the U.S.) – Call Collect accepted +1-360-256-7365

2. Hazard(s) Identification

Classification of substance or mixture/Signal Word

DANGER
ACUTE TOXICITY: ORAL – Category 4
SKIN CORROSION/IRRITATION – Category 1
SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1
SKIN SENSITIZATION – Category 1
TOXIC TO REPRODUCTION [Fertility] – Category 1
TOXIC TO REPRODUCTION [Unborn child] – Category 1

GHS Label Elements
Hazard Pictograms

Hazard Statements/Classification of substance or mixture

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.

Precautionary statements

Precautionary Statements
Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves. Wear eye or face protection.

Response

P313 Call a POISON CENTER or doctor/physician if you feel unwell.
P301+330 +331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+361+353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage

P401 Store at room temperature in a well-ventilated area.

Disposal

P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified (HNOC) None Available.

3. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Content (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified Polyamines</td>
<td>Trade Secret</td>
<td>80 – 90%</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>15 – 25%</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

4. First-Aid Measures

Skin contact

Remove contaminated clothing and shoes and wipe excess off skin. Wash the affected area with plenty of soap and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothes before reuse. If skin irritation occurs: Get medical advice/attention.

Eye contact

Rinse immediately with plenty of water for at least 15 minutes. Flush longer if there is an indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Check for and remove any contact lenses. Continue rinsing for 10 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out the mouth with water. Get medical attention immediately.

Inhalation

If affected, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

Specific treatments

No specific treatment.

5. Fire-Fighting Measures

Suitable extinguishing media

Alcohol-resistant foam.
Carbon dioxide (CO₂).
Dry chemical
Water Fog

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
In a fire or if heated, a pressure increase will occur and the container may burst. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Hazardous decomposition products
Decomposition products may include the following materials:
Carbon dioxide
Carbon monoxide
Nitrogen oxides

Special protective actions for fire-fighters
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Further information
Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental Release Measures

Personal precautions
No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Wear proper protective clothing, gloves and eye/face protection.

Emergency procedures
If material is spilled, avoid contact with material. Persons not wearing appropriate protective equipment should leave the area of the spill until cleanup is complete.

Methods and materials for containment/cleanup
Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Environmental precautions
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. Handling and Storage

Precautions for safe handling
Put on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid contact with skin and eyes. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. When using, do not eat, drink or smoke. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering
eating areas. See also Section 8 for additional information on hygiene measures.

Precautions/Recommendations for safe/proper storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits

None established.

Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. Do not allow spill to enter sewers or waterways.

Individual protection measures/Personal protective equipment

Eye/face protection

Splash-proof goggles or safety spectacles with side shields are recommended. Always wear eye protection when sanding cured epoxy resins to avoid dust in eyes.

Hand protection

Always wear impervious gloves: butyl rubber, nitrile rubber, Neoprene, PVC disposable gloves,

Skin protection

Wear clean, body-covering clothing to avoid skin contact.

Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Special instructions for protection and hygiene

Wear gloves at all times when handling product, avoid direct contact with skin. When finished using product, dispose of gloves properly and wash hands with warm, soapy water.

9. Physical and Chemical Properties

Chemical family

Amine curing agent

Appearance

Green paste

Physical State

Form

Paste

Color

Green

Odor

Amine-like odor

Density (Specific Gravity)

1.06

Viscosity

100,000 CPS @77°F (25°C)
10. Stability and Reactivity

Reactivity
Stable.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid
Epoxy resins and epoxy resin hardeners react with each other producing heat. They should not be mixed with each other under uncontrolled conditions or in large mass the ensuing exotherm may result in heat and smoke.

Incompatible materials
Strong oxidizing agents, mineral acids.

Hazardous decomposition products
Oxides of carbon, nitrogen.

Other hazards
None known.

11. Toxicological Information

Acute Health Hazard (components)
No comprehensive data (ingestion, inhalation, dermal) on mixture (product).

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Alcohol</td>
<td>Inhalation LC50</td>
<td>Rat</td>
<td>&gt;4178 mg/m3</td>
<td>4 h, aerosol</td>
</tr>
<tr>
<td></td>
<td>Oral LD50</td>
<td>Rat</td>
<td>1620 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Irritation/Corrosion (components)
Classifies as skin corrosion Category 1 based on GHS cut-off values/concentration limits in the product. Causes serious eye damage (Category 1).

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Test</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Alcohol</td>
<td>Non-irritant</td>
<td>Rabbit</td>
<td>OECD 404 – Skin</td>
<td>-</td>
</tr>
<tr>
<td>Component</td>
<td>Route of Exposure</td>
<td>Species</td>
<td>Results</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------</td>
<td>-------------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Modified Polyamines</td>
<td>Skin</td>
<td>Guinea pig</td>
<td>Sensitizing</td>
<td></td>
</tr>
</tbody>
</table>

**Mutagenicity**
- No information on the product itself.

**Carcinogenicity**
- No information on the product itself.

**Reproductive Toxicity**
- No information on the product itself.

**Teratogenicity**
- No information on the product itself.

**Specific target organ toxicity (single exposure)**
- No information on the product itself.

**Specific target organ toxicity (repeated exposure)**
- No information on the product itself.

**Aspiration hazard**
- No information on the product itself.

**Potential acute health effects**

**Eye Contact**
- Causes serious eye damage.

**Inhalation**
- May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Skin Contact**
- Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.

**Ingestion**
- Harmful if swallowed. May cause burns to mouth, throat, and stomach.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Eye Contact**
- Adverse symptoms may include the following:
  - Pain
  - Watering
  - Redness

**Inhalation**
- Adverse symptoms may include the following:
  - Reduced fetal weight
  - Increase in fetal deaths

**Skin Contact**
- Adverse symptoms may include the following:
  - Pain or irritation
  - Redness
  - Blistering may occur
  - Reduced fetal weight
  - Increase in fetal deaths

**Ingestion**
- Adverse symptoms may include the following:
  - Stomach pains
  - Reduced fetal weight
  - Increase in fetal deaths

**Delayed and immediate effects and also chronic effects from short and long term exposure**
- No information on the product itself.

**Potential chronic health effects**

**General**
- Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity  
No known significant effects or critical hazards.

Mutagenicity  
No known significant effects or critical hazards.

Teratogenicity  
Suspected of damaging the unborn child.

Developmental effects  
No known significant effects or critical hazards.

Fertility effects  
Suspected of damaging fertility.

**Numerical measures of toxicity**

**Acute toxicity estimates (ATEmix)**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>1915.6 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>3251 mg/kg</td>
</tr>
<tr>
<td>Inhalation (vapors)</td>
<td>50.99 mg/l</td>
</tr>
</tbody>
</table>

**12. Ecological Information**

**Ecotoxicity**  
No comprehensive data on the product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Endpoint</th>
<th>Exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Alcohol</td>
<td>-</td>
<td>Acute EC50</td>
<td>48 hrs</td>
<td>Invertebrates</td>
<td>230 mg/l</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>Acute LC50</td>
<td>96 hrs</td>
<td>Fish</td>
<td>460 mg/l</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>Acute EC50</td>
<td>72 hrs</td>
<td>Algae</td>
<td>770 mg/l</td>
</tr>
</tbody>
</table>

**Persistence and degradability**  
No information on the product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Period</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Alcohol</td>
<td></td>
<td></td>
<td>Readily Biodegradable</td>
</tr>
</tbody>
</table>

**Bioaccumulative Potential**  
No information on the product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Alcohol</td>
<td>1.05</td>
<td>1.37 (calculated)</td>
<td>Low</td>
</tr>
</tbody>
</table>

**Mobility in Soil**  
No information on the product itself.

**Soil/water partition coefficient (KOC)**  
No information on the product itself.

**Other adverse effects**  
None known.

**13. Disposal Considerations**

**Waste from residues/ unused products**  
Product should not be allowed to enter drains, water courses or the soil; dispose of this material and its containers in a safe way. Contact supplier if guidance is required.

**Contaminated packaging**  
Dispose of container and unused contents in accordance with federal, state and local requirements.

**14. Transport Information**

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

**International Transport Regulations**
### Regulatory Information

**UNITED STATES**

- **U.S. Federal Regulations**
  - United States – TSCA 12(b) – Chemical export notification: None Required.
  - United States – TSCA 5(a)2 – Final significant new use rules: Not Listed.
  - United States – TSCA 5(a)2 – Proposed significant new use rules: Not Listed.
  - United States – TSCA 5(e) – Substance consent order: Not listed.

- **Clean Air Act – Ozone Depleting Substances (ODS)**
  This product does not contain nor is it manufactured with ozone depleting substances.

- **Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)**
<table>
<thead>
<tr>
<th>Product Name</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine</td>
<td></td>
</tr>
</tbody>
</table>

- **Pennsylvania – RTK**
  N-Aminoethylpiperazine, Diethanolamine

- **California Prop. 65**
  WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Cancer</th>
<th>Reproductive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine</td>
<td>Yes.</td>
<td>No.</td>
</tr>
</tbody>
</table>

- **EPA SARA 302 Extremely Hazardous Substances**
  None.

- **EPA SARA 302/304/311/312 Hazardous Chemicals**
  Acute Health Hazard, Chronic Health Hazard

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine</td>
<td>1%</td>
</tr>
</tbody>
</table>

- **SARA 313 Form R – Reporting requirements**

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>Section 304 CERCLA Hazardous Substance</th>
<th>CERCLA Reportable Quantity (Lbs)</th>
<th>Product Reportable Quantity (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine</td>
<td>1%</td>
<td></td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

- **United States inventory (TSCA 8b)**
  All components are listed or exempted.

**CANADA**

- **WHMIS (Canada)**
  Class D-2B: Material causing other toxic effects (Toxic).
Class E: Corrosive material.

**Canadian NPRI**
None required.

**CEPA Toxic substances**
None required.

**INTERNATIONAL REGULATIONS**

**International Lists**
- **Australia inventory (AICS):** All components are listed or exempted.
- **Canada inventory:** All components are listed or exempted.
- **Korea inventory:** All components are listed or exempted.
- **Japan inventory:** All components are listed or exempted.
- **China inventory (IECSC):** All components are listed or exempted.
- **New Zealand inventory (NZIoC):** All components are listed or exempted.
- **Philippines inventory (PICCS):** All components are listed or exempted.
- **Taiwan inventory (CSNN):** All components are listed or exempted.

### 16. Other Information, Including Date of Preparation or Last Revision

**HMIS Rating**
- Health: 3
- Flammability: 1
- Physical Hazard: 0

**Date of Preparation**
January 24, 2020

**Date of Last Revision**
September 16, 2019

**Revision #**
5.0

**More Information**
1-253-333-8118

**Prepared by**
System Three Resins Inc.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.