## 1. Product Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>System 51 Resin, Part A</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS Number</td>
<td>0800A00</td>
</tr>
<tr>
<td>Product type</td>
<td>Epoxy resin mixture.</td>
</tr>
<tr>
<td>Recommended use of the chemical and restrictions on use</td>
<td>Directed at, but not limited to, the laminating and coating of wood.</td>
</tr>
<tr>
<td>Restrictions</td>
<td>None known.</td>
</tr>
</tbody>
</table>

### Manufacturer/Supplier information

<table>
<thead>
<tr>
<th>Company name</th>
<th>SYSTEM THREE RESINS, INC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>8517 Commerce Place Dr NE</td>
</tr>
<tr>
<td></td>
<td>Lacey, WA 98516</td>
</tr>
<tr>
<td></td>
<td>United States</td>
</tr>
<tr>
<td>Telephone</td>
<td>1-253-333-8118</td>
</tr>
<tr>
<td>Website</td>
<td><a href="http://www.systemthree.com">www.systemthree.com</a></td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:support@systemthree.com">support@systemthree.com</a></td>
</tr>
<tr>
<td>Emergency Contact</td>
<td>CHEMTEL (U.S. and CANADA)</td>
</tr>
<tr>
<td></td>
<td>1-800-704-9215</td>
</tr>
<tr>
<td></td>
<td>CHEMTEL (Outside the U.S.) Call Collect accepted</td>
</tr>
<tr>
<td></td>
<td>+1-360-256-7365</td>
</tr>
</tbody>
</table>

## 2. Hazard(s) Identification

### Classification of substance or mixture/Signal Word

- WARNING
  - SKIN CORROSION/IRRITATION – Category 2
  - SERIOUS EYE DAMAGE/EYE IRRITATION – Category 2
  - SKIN SENSITIZATION – Category 1
  - SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] – Category 3

### GHS Label Elements

#### Hazard Pictograms

![Hazard Pictogram]

### Hazard Statements/Classification of substance or mixture

- **H315** Causes skin irritation.
- **H317** May cause an allergic skin reaction.
- **H319** Causes serious eye irritation.
- **H335** May cause respiratory irritation.

### Precautionary statements

#### Precautionary Statements

<table>
<thead>
<tr>
<th>Precautionary Statement</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>P260</td>
<td>Do not breathe vapors.</td>
</tr>
<tr>
<td>P264</td>
<td>Wash hands thoroughly after handling.</td>
</tr>
<tr>
<td>P271</td>
<td>Use only outdoors or in a well-ventilated area.</td>
</tr>
<tr>
<td>P272</td>
<td>Contaminated work clothing should not be allowed out of the workplace.</td>
</tr>
</tbody>
</table>
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF INHALED: Remove victim to fresh air and keep at rest in a position 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 ON SKIN: Wash with soap and water. Take off contaminated clothing and wash before reuse.

Get medical attention if exposed or concerned.

Storage

Store at room temperature in a well-ventilated area.

Disposal

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

Hazard 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>Diglycidyl Ether of Bisphenol A</td>
<td>25068-38-6</td>
<td>70 – 75%</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>10–20%</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol F</td>
<td>28064-14-4</td>
<td>10–15%</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 material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watch bands.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Suitable emergency eye wash facility should be available in work area. Get medical attention immediately if irritation persists.

Ingestion

Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Inhalation

Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments
No specific treatment.

5. Fire-Fighting Measures

Suitable extinguishing media
Alcohol-resistant foam, dry chemical, water fog or carbon dioxide (CO2).

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. This material is toxic to aquatic life with long lasting effects. Fire water contaminated must be contained and prevented from being discharged to any waterway, sewer or drain.

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

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 specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

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.
Precautions/Recommendations for safe/proper storage

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.

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

Use appropriate containment to avoid environmental contamination. 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

Discard contaminated leather articles. Remove contaminated clothing. Wash at the end of each work shift and before eating smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Chemical family</th>
<th>Epoxy Resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic odor</td>
</tr>
<tr>
<td>Density (Specific Gravity)</td>
<td>1.15</td>
</tr>
<tr>
<td>Viscosity</td>
<td>550 – 650 CPS @77°F</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Initial boiling point and boiling range: N/A
Flash point: >300°F (Pensky-Martens Closed Cup)
Evaporation rate: Slower than Ether
Flammability (solid, gas): N/A
Upper/lower flammability limit (by volume):
  Upper flammability limit (by volume): N/A
  Lower flammability limit (by volume): N/A
Material VOC: None
Vapor density: Heavier than air
Relative density: N/A
Solubility in water: Negligible
Partition coefficient: n-octanol/water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A

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: Extremes of temperature and direct sunlight.
Incompatible materials: Reactive or incompatible with the following materials:
  Strong oxidizing agents
  Strong acids
  Aliphatic amines
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other hazards: Reacts with considerable heat release with some curing agents.

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>Diglycidyl Ether of Bisphenol A</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>11,400 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>2,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol F</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>&gt;2,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>&gt;2,000 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>1620 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LC50 Inhalation</td>
<td>Rat</td>
<td>&gt;4178 mg/m3</td>
<td>4 h, aerosol</td>
</tr>
</tbody>
</table>
Diglycidyl Ether of Bisphenol A

<table>
<thead>
<tr>
<th>Component</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>Category 3</td>
<td>Respiratory tract irritation</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol F</td>
<td>Category 3</td>
<td>Respiratory tract irritation</td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>

### Sensitization
No data is available for this product.

### Mutagenicity
No data is available for this product.

### Carcinogenicity
No data is available for this product.

### Reproductive Toxicity
No data is available for this product.

### Teratogenicity
No data is available for this product.

### Specific target organ toxicity (single exposure)
No data is available for this product.

### Specific target organ toxicity (repeated exposure)
No data is available for this product.

### Aspiration hazard
No data is available for this product.

### Potential acute health effects

#### Eye Contact
Causes serious eye irritation.

#### Inhalation
May cause respiratory irritation.

#### Skin Contact
Causes skin irritation. May cause an allergic skin reaction.

#### Ingestion
Irritating to mouth, throat and stomach.

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

#### Eye Contact
Adverse symptoms may include the following:
- Pain or irritation
- Watering
- Redness

#### Inhalation
Adverse symptoms may include the following:
- Respiratory tract irritation
- Coughing

#### Skin Contact
Adverse symptoms may include the following:
- Irritation
- Pain
- Redness

#### Ingestion
No specific data

### Delayed and immediate effects and also chronic effects from short and long term exposure
Not available.

### 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  No known significant effects or critical hazards.
Developmental effects  No known significant effects or critical hazards.
Fertility effects  No known significant effects or critical hazards.

Numerical measures of toxicity
Acute toxicity estimates (ATEmix)  Not available.

12. Ecological Information

Ecotoxicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Exposure</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>LC50</td>
<td>Fish</td>
<td>1.3 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>Daphnia</td>
<td>2.1 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol F</td>
<td>LC50</td>
<td>Fish</td>
<td>1.5 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>Daphnia</td>
<td>1.7 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC</td>
<td>0.3 mg/l</td>
<td>21 d</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>LC50</td>
<td>Fish</td>
<td>460 mg/l</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>EC50</td>
<td>Invertebrates</td>
<td>230 mg/l</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>EC50</td>
<td>Algae</td>
<td>770 mg/l</td>
<td>72 h</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chronic NOEC</td>
<td>310 mg/l</td>
<td>72 h</td>
</tr>
</tbody>
</table>

Persistence and degradability

<table>
<thead>
<tr>
<th>Component</th>
<th>Test</th>
<th>Period</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>OECD 302B</td>
<td>28 d</td>
<td>12%</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol F</td>
<td>OECD 301F Derived</td>
<td>28 d</td>
<td>5%</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td></td>
<td></td>
<td>Readily Biodegradable</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Component</th>
<th>LogPow</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>2.64 – 3.78</td>
<td>3 – 31</td>
<td>Low</td>
</tr>
<tr>
<td>Diglycidyl Ether of Bisphenol F</td>
<td>3.242</td>
<td>31</td>
<td>Low</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>1.05</td>
<td>1.37 (calculated)</td>
<td>Low</td>
</tr>
</tbody>
</table>

Mobility in Soil

<table>
<thead>
<tr>
<th>Soil/water partition coefficient (KOC)</th>
<th>No information on the product itself.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other adverse effects</td>
<td>No known significant effects or critical hazards.</td>
</tr>
</tbody>
</table>

13. Disposal Considerations

Waste from residues/ unused products  The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. 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.

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN/NA number</th>
<th>Proper Shipping Name</th>
<th>Classes/*PG</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN3082</td>
<td>Environmentally Hazardous Substance, Liquid, N.O.S. (Bisphenol-A Epichlorohydrin Resin)</td>
<td>Class 9 III</td>
<td></td>
</tr>
<tr>
<td>IATA</td>
<td>UN3082</td>
<td>Environmentally Hazardous Substance, Liquid, N.O.S. (Bisphenol-A Epichlorohydrin Resin)</td>
<td>Class 9 III</td>
<td></td>
</tr>
</tbody>
</table>

*PG: Packing group

Special precautions for user: Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. 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.

California Prop. 65
WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane, 2-(phenoxymethyl)-</td>
<td>Yes</td>
<td>No</td>
<td>5 µg/day</td>
<td>No</td>
</tr>
<tr>
<td>Oxirane, 2-(chloromethyl)-</td>
<td>Yes</td>
<td>Yes</td>
<td>9 µg/day</td>
<td>No</td>
</tr>
</tbody>
</table>

EPA SARA 302 Extremely Hazardous Substances
EPA SARA 302/304/311/312 Hazardous Chemicals
United States inventory (TSCA 8b) All components are listed or exempted.

CANADA

WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic).
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 2
- Flammability 1
- Physical Hazard 0

Date of Preparation January 14, 2020
Date of Last Revision September 12, 2019
Revision # 3.0
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.