SAFETY DATA SHEET

1. Product Identification

Product name: GelMagic Resin, Part A
SDS Number: 1230A00
Product type: Epoxy polymer mixture.
Manufacturer/Supplier information: Directed at, but not limited to, the adhesive of similar and dissimilar substrates.
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: CHEMT (U.S. and CANADA) 1-800-704-9215
CHEMT (Outside the U.S.) – Call Collect accepted +1-360-256-7365

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 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
Prevention
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- 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/protective clothing/eye protection/face protection.
Response

P304 + 340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P313 Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352+363 IF ON SKIN: Wash with soap and water. Take off contaminated clothing and wash before reuse.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308 + P313 If exposed or concerned: Get medical attention.

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>Diglycidyl Ether of Bisphenol A</td>
<td>25068-38-6</td>
<td>70 – 80 %</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>100-51-6</td>
<td>5 – 10 %</td>
</tr>
<tr>
<td>Alkyl Glycidyl Ether</td>
<td>17557-23-2</td>
<td>5 – 10 %</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. Flush skin with water. Follow by washing in soap and water. If irritation occurs, seek medical attention. Do not reuse clothing until cleaned. Contaminated leather articles (shoes) cannot be decontaminated and should be destroyed.

Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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.

Inhalation

Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

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, 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. 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

Wear proper personal protective equipment (PPE). Avoid direct contact with material. Proper PPE includes: disposable gloves, eye protection and skin protection.

Emergency procedures

If materials 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

7. Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do not eat, drink or smoke.

Precautions/Recommendations for safe/proper storage

Store epoxy products in temperature stable environment, out of the reach of pets or children. Securely fasten container lids and tops, and prevent products from sitting and below freezing temperatures.

8. Exposure Controls/Personal Protection

Permissible exposure limit (OSHA)

None established.

Threshold limit value (ACGIH)

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

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

<table>
<thead>
<tr>
<th>Chemical family</th>
<th>Epoxy Resin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Blue paste</td>
</tr>
<tr>
<td>Physical State</td>
<td>Epoxy polymer mixture</td>
</tr>
<tr>
<td>Form</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Density (Specific Gravity)</td>
<td>9.78 lb/gal (1.17)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>90,000 cps at 77 °F (25 °C)</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>N/A</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;300°F, Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Slower than ether</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Data not available</td>
</tr>
<tr>
<td>Upper/lower flammability limit (by volume)</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>Upper flammability limit (by volume)</td>
</tr>
<tr>
<td></td>
<td>Lower flammability limit (by volume)</td>
</tr>
<tr>
<td>Material VOC</td>
<td>None</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Heavier than air</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Negligible</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>3</td>
</tr>
</tbody>
</table>
### 10. Stability and Reactivity

**Reactivity**
No specific test data related to reactivity available for this product.

**Chemical Stability**
Stable under normal conditions.

**Possibility of hazardous reactions**
Hazardous polymerization 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 as the ensuing exotherm may result in heat and smoke, resulting in hazardous decomposition products.

**Incompatible materials**
Strong oxidizing and reducing agents. Lewis and mineral acids.

**Hazardous decomposition products**
Oxides of carbon, aldehydes, and acids.

### 11. Toxicological Information

#### Acute Toxicity
No comprehensive data is available on the product itself.

<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>Alkyl Glycidyl Ether</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4,500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</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>

**Irritation/Corrosion (components)**
No information on product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Test</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>Moderate to severe</td>
<td>Rabbit</td>
<td>Skin</td>
<td>4 h</td>
</tr>
<tr>
<td></td>
<td>irritation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mild irritation</td>
<td>Rabbit</td>
<td>Eye</td>
<td>24 h</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>Irritant</td>
<td>Rabbit</td>
<td>Eye</td>
<td>-</td>
</tr>
</tbody>
</table>

**Sensitization**
No information on product itself.

**Mutagenicity**
No information on product itself.

**Carcinogenicity**
No information on product itself.

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

**Teratogenicity**
No information on product itself.

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

<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></td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Alkyl Glycidyl Ether</td>
<td>Category 3</td>
<td></td>
<td>Respiratory tract irritation</td>
</tr>
</tbody>
</table>
Specific target organ toxicity (repeated exposure)  
No information on product itself.

Aspiration hazard  
No information on product itself.

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, Watering, Redness

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

Skin Contact  
Adverse symptoms may include the following: Irritation, 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 (ATE_{mix})  
No specific data.

12. Ecological Information

Ecotoxicity  
No information on product itself.

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diglycidyl Ether of Bisphenol A</td>
<td>Acute LC50 1.3 mg/l</td>
<td>Fish</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 2.1 mg/l</td>
<td>Daphnia</td>
<td>48 h</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>Acute LC50 460 mg/l</td>
<td>Fish</td>
<td>96 h</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 230 mg/l</td>
<td>Invertebrates</td>
<td>48 h</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 310 mg/l</td>
<td>Algae</td>
<td>72 h</td>
</tr>
</tbody>
</table>
Persistence and degradability

No information on product itself.

Bioaccumulative Potential

No information on product itself.

<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 31.00</td>
<td>Low</td>
</tr>
<tr>
<td>Benzyl Alcohol</td>
<td>1.05</td>
<td>1.37 (calculated)</td>
<td>-</td>
</tr>
</tbody>
</table>

Mobility in Soil

Soil/water partition coefficient (KOC)

No information on product itself.

Other adverse effects

No known significant effects or critical hazards.

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>Non-regulated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td></td>
<td>Non-regulated</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 12(b) – Proposed significant new use rules: None Required.
Clean Air Act – Ozone Depleting Substances (ODS)

This product does not contain nor is it manufactured with ozone depleting substances.

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 302/304/311/312 Substances

Acute Health Hazard

EPA SARA 313

None Required

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

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

Date of Preparation

January 16, 2020

Date of Last Revision

September 18, 2019

Revision #

6.0

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.