# SAFETY DATA SHEET

## 1. Product Identification

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| **Product name** | GelMagic Resin, Part A |
| **SDS Number** | 1230A00 |
| **Product type** | Epoxy polymer mixture. |
| **Recommended use of the chemical and restrictions on use** | Directed at, but not limited to, the laminating and coating of fiber composite and wood |
| **Restrictions** | None known. |
| **Manufacturer/Supplier information** | |
| **Company name** | SYSTEM THREE RESINS, INC. |
| **Address** | 3500 W. Valley Hwy North<br>Suite 105<br>Auburn, WA 98001-2436<br>United States |
| **Telephone** | 1-253-333-8118 |
| **Website** | www.systemthree.com |
| **Email** | support-08@systemthree.com |
| **Emergency Contact** | CHEMTREC (U.S. and CANADA) 1-800-424-9300<br>CHEMTREC (Outside the U.S.) 1-703-527-0585 |

## 2. Hazard(s) Identification

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|---|---|
| **Classification of substance or mixture/Signal word** | WARNING. |
| **GHS Label Elements**<br>**Hazard Pictograms** |  |
| **Hazard statements** | H302 Acute Toxicity<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation. |
| **Precautionary Statements**<br>**Prevention** | P280 Wear protective gloves. Wear eye or face protection.<br>P201 Obtain special instructions before use.<br>P202 Do not handle until all safety precautions have been read and understood. |
| **Response** | P308 + P313 If exposed or concerned: Get medical attention. |
| **Storage** | P401 Store above 32 °F / 0 °C |
| **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

| Chemical Name | CAS Number | Content (%) |
|---|---|---|
| Diglycidyl Ether of Bisphenol A | 25068-38-6 | 70 – 80 % |
| Benzyl Alcohol | 100-51-6 | 5 – 10 % |
| Alkylglycidyl Ether | 17557-23-2 | 5 – 10 % |

## 4. First-Aid Measures

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| **Inhalation** | Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. |
| **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** | Flush with water for 15 minutes holding eye lids open. Seek medical attention. |
| **Ingestion** | Do not give liquids if victim is unconscious of very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 2 tablespoons syrup of ipecac (1 tablespoon and 1 glass of water for child). If ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of throat. Keep head below hips while vomiting. Get medical attention. |
| **Most important symptoms/effects, acute and delayed** | Burns. Irritation. Pre-existing skin conditions may be aggravated by prolonged or repeated contact. Persons with sensitive airways (e.g., asthmatics) may be sensitive to vapors. |
| **Indication of immediate medical attention and special treatment needed** | Treat symptoms as they appear. |

## 5. Fire-Fighting Measures

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| **Suitable extinguishing media** | Foam, carbon dioxide, dry chemical, water fog. |
| **Unsuitable extinguishing media** | None known |
| **Specific hazards arising from the chemical** | Potential skin irritation. |
| **Special protective equipment and precautions for fire-fighters** | When fighting chemical fires wear full protective equipment with self-contained breathing apparatus. Water spray may be used to cool fire-exposed containers. Toxic fumes may be evolved when this substance is burned. |
| **Fire-fighting equipment/instructions** | Full fire suit and self-contained breathing apparatus. |
| **Specific methods** | Water spray may be used to cool fire-exposed containers. Toxic fumes may be evolved when this substance is burned. |
| **General fire hazards** | Epoxy in mass can create exotherm. |

## 6. Accidental Release Measures

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| **Personal precautions** | Wear proper personal protective equipment (PPE). Avoid direct contact with material. |
| **Protective equipment** | 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. |

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| **Methods and materials for containment/cleanup** | Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid may be taken up on clay, diatomaceous earth, sawdust or other absorbent, and shoveled into disposal container. |
| **Environmental precautions** | Skin sensitizer, harmful to aquatic life. |

## 7. Handling and Storage

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|---|---|
| **Precautions for safe handling** | Always wear protective, disposable gloves when handling epoxy products to prevent exposure. |
| **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. |
| **Chemical incompatibilities** | None known. |

## 8. Exposure Controls/Personal Protection

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| **Permissible exposure limit (OSHA)** | None established |
| **Threshold limit value (ACGIH)** | None established |
| **Biological Toxicology** | Not available |
| **Appropriate engineering controls** | Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
| **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 to avoid dust in eyes. |
| **Hand protection** | Always wear impervious gloves, neoprene, vinyl or rubber. |
| **Skin protection** | Wear clean, body-covering clothing to avoid skin contact. |
| **Respiratory protection** | Use a NIOSH approved respiratory device when sanding cured epoxy to prevent dust in lungs. |
| **General hygiene during/after use** | 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

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|---|---|
| **Chemical family** | Epoxy Resin |
| **Appearance** | Blue paste |
| **Physical State** | Epoxy polymer mixture |
| **Form** | Paste |
| **Color** | Blue |
| **Odor** | Mild |
| **Odor threshold** | Not determined |
| **Density (Specific gravity)** | 9.78 lb/gal (1.17) |
| **Viscosity** | 90,000 cps @ 25°C |

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|---|---|
| **pH** | Data not available |
| **Melting point/freezing point** | Data not available |
| **Initial boiling point and boiling range** | Data not available |
| **Flash point** | >300°F, Pensky-Martens Closed Cup |
| **Evaporation rate** | Slower than ether |
| **Flammability (solid, gas)** | Data not available |
| **Upper/lower flammability or explosive limits** | |
| **Upper flammability limit (by volume)** | N/A |
| **Lower flammability limit (by volume)** | N/A |
| **Material VOC** | None |
| **Vapor density** | Heavier than air |
| **Relative density** | Not determined |
| **Solubility** | Negligible, in water |
| **Partition coefficient: n-octanol/water** | 3 |
| **Auto-ignition temperature** | 300°C (572.00°F) |
| **Decomposition temperature** | Not available |

## 10.Stability and Reactivity

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|---|---|
| **Reactivity** | None |
| **Chemical stability** | Stable |
| **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 agents, Lewis and mineral acids. |
| **Hazardous decomposition products** | Oxides of carbon, aldehydes, acids. |

## 11. Toxicological Information

**Information of likely routes of exposure**

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|---|---|
| **Ingestion** | LD50 Oral, Rat: 11,400 mg/kg<br>LD50 Dermal, Rat: 2,200 mg/kg |
| **Inhalation** | Not available. |
| **Skin contact** | Skin – Erythema/Eschar 404 Acute Dermal Irritation/Corrosion, Rabbit: 1.5 – 2.<br>Skin – Edema 404 Acute Dermal Irritation/Corrosion, Rabbit: 1.0 – 1.5.<br>Skin – Moderate irritant, Rabbit: 24 hrs.<br>Skin – Severe irritant, Rabbit: 24 hrs. |
| **Eye contact** | Eyes – 405 Acute Eye Irritation/Corrosion, Rabbit: 0.<br>Eyes – Redness of the conjunctive, Rabbit: 0.7.<br>Eyes – Mild irritant: N/A. |

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

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|---|---|
| **Ingestion** | No specific data. |
| **Inhalation** | Adverse symptoms may include the following: respiratory tract infection, coughing. |
| **Skin contact** | Adverse symptoms may include the following: irritation. |
| **Eye contact** | Adverse symptoms may include the following: pain or irritation, watering, redness. |
| **Information on toxicology** | Not available. |

## 12. Ecological Information

**Ecotoxicity**

| **Product** | **Result** | **Species** | **Exposure** |
|---|---|---|---|
| **Diglycidyl Ether of Bisphenol A Resin** | Acute LC50 1.3 mg/l – 203 Fish, Acute Toxicity Test | Fish - Fish | 96 h |
| | Acute EC50 2.1 mg/l – 202 Daphnia sp. Acute Immobilization Test and Reproduction Test | Aquatic invertebrates. Water flea | 48 h |
| | Acute NOEC 0.3 mg/l – 211 Daphnia Magna Reproduction Test | Aquatic invertebrates. Water flea | 21 d |
| | Acute LC50 > 11 mg/l | Aquatic plants - Algae | 72 h |

| | | | |
|---|---|---|---|
| **Persistence and degradability** | Not available | | |
| **Bioaccumulative potential** | **LogPow** | **BCF** | **Potential** |
| **Diglycidyl Ether of Bisphenol A Resin** | 3 | Not available | Low |
| **Mobility in soil** | Not available | | |
| **Other adverse effects** | No known significant effects or critical hazards. | | |

## 13. Disposal Considerations

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|---|---|
| **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. Stop spill at source, dike area to prevent spreading, pump liquid to salvage tank or drum. Remaining liquid may be taken up on clay, diatomaceous earth, sawdust, or other absorbent, and shoveled into disposal containers. |
| **Waste Disposal Method** | Waste is not hazardous by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local regulations. |

## 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** | **UN/NA number** | **Proper Shipping Name** | **Classes/*PG** | **Reportable Quantity (RQ)** |
|---|---|---|---|---|
| **US DOT** | | Non-regulated | | |
| **TDG** | | Non-regulated | | |

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|---|---|---|---|
| **IMO/IMDG** | 3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LIQUID EPOXY RESIN) | Class 9 III |
| **IATA(Cargo)** | 3082 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (LIQUID EPOXY RESIN) | Class 9 III |

**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**

**California Prop. 65** This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

**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.
**Japan inventory:** All components are listed or exempted.
**China inventory (IECSC):** All components are listed or exempted.
**Korea inventory:** All components are listed or exempted.
**Philippines inventory (PICCS):** All components are listed or exempted.
**New Zealand Inventory (NZIOC):** 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 Hazards** | **0** |

**WHMIS Rating: D2B**

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