



SAFETY DATA SHEET

1. Product Identification

Product name	GelMagic Hardener, Part B
SDS Number	1230B00
Product type	Amine/Butadiene mixture.
Recommended use of the chemical and restrictions on use	Directed at, but not limited to, the adhesive of similar and dissimilar substrates.
Restrictions	None known.
Manufacturer/Supplier information	
Company name	SYSTEM THREE RESINS, INC.
Address	3500 W. Valley Hwy North Suite 105 Auburn, WA 98001-2436 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 CHEMTREC (Outside the U.S.) 1-703-527-0585

2. Hazard(s) Identification

Classification of substance or mixture/Signal word

WARNING.
SKIN IRRITATION – Category 2
SKIN SENSITIZATION – Category 1
EYE IRRITATION – Category 1

GHS Label Elements
Hazard Pictograms



Hazard statements

H302 Harmful if swallowed
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

Precautionary Statements
Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves. Wear eye or face protection.

Response	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 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 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 (%)
Modified Polyamines	Trade Secret	70-80
ATBN Polymer	68683-29-4	20-30

4. First-Aid Measures

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	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. Get medical attention immediately. Suitable emergency eye wash facility should be available in work area.
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.
Most important symptoms/effects, acute and delayed	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

Suitable extinguishing media	Foam, carbon dioxide, dry chemical, water fog.
Unsuitable extinguishing media	None known
Specific hazards arising from the chemical	Irritating or toxic substances may be emitted upon burning, combustion or decomposition.
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

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 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 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	Use appropriate containment to avoid environmental contamination. Do not flush liquid into public sewer, water systems or surface waters.

7. Handling and Storage

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

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

Chemical family	Polyamine
Appearance	Amber colored paste
Physical State	Amine/Butadiene mixture
Form	Paste
Color	Amber
Odor	Mild
Odor threshold	Not determined
Density (Specific gravity)	8.40 lb/gal (1.01)
Viscosity	60,000 cps @ 25°C
pH	Data not available
Melting point/freezing point	Data not available
Initial boiling point and boiling range	Data not available
Flash point	>250°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	N/A
Auto-ignition temperature	N/A
Decomposition temperature	Not available

10. Stability and Reactivity

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 and reducing agents. Lewis and mineral acids.
Hazardous decomposition products	Oxides of carbon and nitrogen.

11. Toxicological Information

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

Sensitization	May cause sensitization of susceptible persons by skin contact.
Chronic Health Hazard	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.
Specific Target Organ Toxicity (repeated exposure)	No information on product itself.
Aspiration Hazard	No information on product itself.
Information on the likely routes of exposure	(See Section 4)

12. Ecological Information

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

ATBN Polymer: Note: These results are typical for this family of polymers.

Product	Result	Species	Exposure
ATBN Polymer	Acute LC50 – Not established	Fish - Fish	96 h
	Acute EC50 >1000 mg/L – (OECD 202)	Invertebrates	48 h
	Chronic NOEC – Not established	Invertebrates	
	Acute EC50 > 1000 mg/L (OECD 201)	Aquatic plants - Algae	72 h
	Chronic NOEC – Not established	Aquatic plants – Algae	
Persistence and degradability	Not established		
Bioaccumulative potential	Not established		
Mobility in soil	Not established		
Other adverse effects	No known significant effects or critical hazards.		

13. Disposal Considerations

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 Product should not be allowed to enter drains, water courses or the soil; 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	UN/NA number	Proper Shipping Name	Classes/*PG	Reportable Quantity (RQ)
US DOT		Non-regulated		
TDG		Non-regulated		
IMO/IMDG		Non-regulated		
IATA(Cargo)		Non-regulated		

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 does not contain 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

SARA Title III

This product contains no toxic chemicals subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

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	3
Flammability	1
Physical Hazards	0

WHMIS Rating: D2B

Date of printing: 7/25/16
Date of issue/Date of revision: 7/25/16
Date of previous issue: 4/1/08
Prepared by: N. Kim

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