SAFETY DATA SHEET

1. Product Identification

Product name	T-88 Adhesive Resin, Part A
SDS Number	1100A00
Product type	Epoxy polymer mixture.
Recommended use of the chemical and restrictions on use	Directed at, but not limited to, the adhesion 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
Eye Irritation Category 2
Skin Sensitization Category 1

GHS Label Elements
Hazard Pictograms

Hazard statements

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

Precautionary Statements
Prevention

P280 Wear protective gloves. Wear eye or face protection.
P201 Obtain special instructions before use.
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	100 %

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	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

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

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.

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. Avoid dispersal of spilled material, contact with soil, waterways, drains and sewers.

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	Epoxy Resin
Appearance	Clear viscous liquid
Physical State	Epoxy polymer mixture
Form	Liquid
Color	Water clear
Odor	Little or no odor
Odor threshold	Not determined

Density (Specific gravity)	9.5-9.7 lb/gal (1.1-1.2)
Viscosity	8,000-10,000 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	>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

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

Diglycidyl Ether of Bisphenol A

Ingestion	LD50 Oral, Rat: 11,400 mg/kg LD50 Dermal, Rat: 2,200 mg/kg
Inhalation	Not available.
Skin contact	Skin – Erythema/Eschar 404 Acute Dermal Irritation/Corrosion, Rabbit: 1.5 – 2. Skin – Edema 404 Acute Dermal Irritation/Corrosion, Rabbit: 1.0 – 1.5. Skin – Moderate irritant, Rabbit: 24 hrs. Skin – Severe irritant, Rabbit: 24 hrs.

Eye contact	Eyes – 405 Acute Eye Irritation/Corrosion, Rabbit: 0. Eyes – Redness of the conjunctive, Rabbit: 0.7. Eyes – Mild irritant: N/A.
Symptoms related to the physical, chemical, and toxicological characteristics	
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	Category 3

12. Ecological Information

Ecotoxicity

Component	Result	Species	Exposure
Diglycidyl Ether of Bisphenol A	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 – 3, BCF – NA, Potential – Low.		
Mobility in soil	Not available.		
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

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		
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

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. **United States – TSCA 5(e) – Substance consent order:** Not listed.
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.

16. Other Information, Including Date Of Preparation Or Last Revision

Date of Preparation	June 10, 2015
More Information	1-253-333-8118
Prepared By	W. Smoot

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