

SAFETY DATA SHEET

1. Product Identification

Product name E-WOOD Part A

SDS Number 1600A00

Product type Epoxy Resin Mixture

Recommended use of the chemical

and restrictions on use

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 <u>support-08@systemthree.com</u>

Emergency Contact CHEMTREC (U.S. and CANADA) 1-800-424-9300

CHEMTREC (Outside the U.S.) 1-703-527-0585

2. Hazard(s) Identification

Appearance/Odor White paste with little or no odor.

Classification of substance or

mixture/Signal word

WARNING.

SKIN CORROSION/IRRITATION Category 2

SKIN SENSITIZATION Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

CHRONIC AQUATIC TOXICITY Category 2

GHS Label Elements

Hazard Pictograms





Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention P261 Avoid breathing fumes/vapors.

P264 Wash hands and exposed skin thoroughly after handling. P272 Contaminated work clothes should not be allowed out of the

workplace.

P273 Avoid release to the environment.

P280 Wear eye protection/face protection. Wear protective gloves.

P281 Use personal protective equipment as required.

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.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/attention.

Storage P405 Store locked up.

Disposal P501 Disposal of contents/container to be specified in accordance

with regulations.

General Read label before use. Keep out of reach of children. If medical advice

is needed, have product container or label at hand.

OSHA/HCS status This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

(HNOC)

None known.

3. Composition/Information On Ingredients

Chemical NameCAS NumberContent (%)Diglycidyl Ether of Bisphenol A (DGEBPA)25068-38-660-70 %

Any concentration shown as a range is due to batch variation in the petroleum source used.

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

Inhalation

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. Get medical attention if adverse health effects persist or are severe. 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.

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 watchbands. Safety shower should be located

in immediate work area.

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. Suitable emergency eye wash facility should be available in work area.

Ingestion Wash out mouth with water. Remove dentures if any. Remove victim to

fresh air and keep at rest in a position comfortable for breathing. 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. 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. Get medical attention if adverse health effects persist or are severe. 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.

Most important

symptoms/effects, acute and

<u>delayed</u> Eye Contact Causes serious eye irritation. Adverse symptoms may include the

following: Pain or irritation, watering, redness.

Inhalation May cause respiratory irritation. Adverse symptoms may include the

following: Respiratory tract irritation, coughing.

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

Adverse symptoms may include the following: Irritation, redness.

Ingestion Irritating to mouth, throat, and stomach.

Indication of immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. Contact poison treatment specialist immediately

if large quantities have been ingested or inhaled.

Specific Treatments No specific treatment.

Protection of First Responders

No action taken shall be taken involving any personal risk without suitable training. If it is suspected that gas or vapors is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly

with water before removing it, or wear gloves.

5. Fire-Fighting Measures

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.

Products of CombustionDecomposition products may include carbon monoxide, carbon dioxide,

aldehydes, acids and halogenated compounds. Toxic fumes may be

evolved when this product is burned.

Special protective equipment and precautions for fire-fighters

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in

a positive pressure mode.

Fire-fighting

equipment/instructions

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. Move containers from fire area

if this can be done without risk.

Specific methods None known.

General fire hazards None known.

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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Protective equipment

Proper PPE includes: disposable gloves, eye protection and skin

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. See also the information in "For nonemergency personnel".

Methods and materials for containment/cleanup Small Spill

Stop leak if without risk. Move containers from spill area. Absorb with an inert absorbent material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Wash the spill area clean with water and detergent, observing environmental requirements.

Large Spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with inert, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Wash the spill area clean with water and detergent, observing environmental requirements. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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 (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Avoid breathing vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. 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.

General Occupational Hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. 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.

Precautions/Recommendations for safe/proper storage

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 (see Section 10) and food and drink. 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.

Chemical incompatibilities

None known.

8. Exposure Controls/Personal Protection

Permissible exposure limit (OSHA) None established.

Occupational exposure limits None established.

exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or

statutory limits.

Environmental exposure controlsEmissions from ventilation or work process equipment should be

checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

Individual protection measures/Personal protective equipment

Eye/face protectionSafety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to

liquid splashes, mists, gases or dusts. Recommended: chemical splash

goggles.

Hand protection Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the

parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be

different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves

cannot be accurately estimated.

Skin protection Personal protective equipment for the body should be selected based on

the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved

by a specialist before handling this product.

Respiratory protectionUse 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.

General hygiene during/after use Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to

the workstation location.

9. Physical and Chemical Properties

Chemical family Epoxy resin

Appearance Solid
Physical State Solid
Form Solid

Color White

Odor Little or no odor
Odor threshold Not determined
Density (Specific gravity) 0.72 g/cm³
Viscosity Not available
pH Not available
Melting point/freezing point Not applicable

Flash point Not available

Evaporation rate Slower than ether

Flammability (solid, gas) Not available

Upper/lower flammability or explosive

Initial boiling point and boiling range

limits

Upper flammability limit (by

volume)

Lower flammability limit (by

volume)

Not available

Not available

Not applicable

Material VOC None

Vapor densityHeavier than airRelative densityNot determinedSolubilityNegligible, in water

Partition coefficient: n-octanol/waterNot availableAuto-ignition temperatureNot availableDecomposition temperatureNot available

10. Stability And Reactivity

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions 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 a large mass as the ensuing exothermic reaction may produce heat, smoke and hazardous decomposition products. Caustic soda (sodium hydroxide) can induce vigorous polymerization at

temperatures around 200 °C.

Incompatible materials Strong oxidizing agents, sodium hydroxide, Lewis and mineral acids.

Hazardous decomposition products Carbon monoxide, carbon dioxide, aldehydes and acids.

11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity
Acute Toxicity (cont.)

Component	CAS No	Result	Species	Dose	Exposure
4,4'-	25068-38-6	LD50 Oral	Rat	11,400 mg/kg	-
Isopropylidenediphenol-					
Epichlorohydrin					
Copolymer					

25068-38-6 LC50 Dermal Rat 2000 mg/m³ 4 h

Sensitization

Component	CAS No	Test	Species	Result	Exposure
4,4'-	25068-38-6	Skin	Rabbit	Moderate to	-
Isopropylidenediphenol-				Severe	
Epichlorohydrin				Irritation	
Copolymer					
	25068-38-6	Eye		Mild Irritation	-

CarcinogenicityNot availableReproductive ToxicityNot availableTeratogenicityNot availableSpecific Target Organ Toxicity (singleNot available

exposure)

Specific Target Organ Toxicity

(repeated exposure)

Aspiration Hazard Information on the likely routes of exposure

Not available

Not available Not available

12. Ecological Information

Ecotoxicity

Component	CAS No	Test	Species	Dose	Exposure
4,4'- Isopropylidenediphenol- Epichlorohydrin Copolymer	25068-38-6	LC50	Fish	1.3 mg/l	96 h
	25068-38-6	EC50	Water Flea	2.1 mg/l	48 h

Biodegradability

Not readily biodegradable (4,4'-lsopropylidenediphenol-Epichlorohydrin Copolymer).

Bioaccumulative Potential

Component	LogPow	BCF	Potential
4,4'-Isopropylidenedipher Epichlorohydrin Copolym		3 – 31	Low

Mobility in Soil

Soil/water Partition Coefficient (Koc) Not available

Other Adverse Effects No known significant effects of critical hazards.

13. Disposal Considerations

Other Adverse Effects

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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

14. Transport Information

	DOT	IMDG	IATA
UN Number	Not regulated	3077	3077
UN Proper Shipping Name	-	Environmentally hazardous substance, solid, n.o.s. (Bisphenol-A Epichlorohydrin Resin)	Environmentally hazardous substance, solid, n.o.s. (Bisphenol-A Epichlorohydrin Resin)
Transport Hazard Class	-	9	9
Packing Group	-	III	III
Environmental Hazards	-	YES	YES
Additional Information	-	EmS: F-A S-F	ERG Code: 9L

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

U.S. Federal Regulations United States – TSCA 8(b) – All components are listed or exempted.

DSL StatusAll components of this product are on the Canadian DSL list.

SARA 311/312 Hazards Acute health hazard.

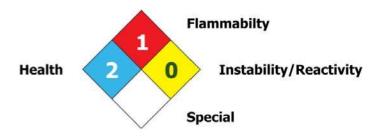
California Prop. 65 None.

Label for Supply



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

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

HMIS Rating

Health2Flammability1Physical Hazards0

History

Date of printing 10/23/15 Date of issue/Date of 10/23/15

revision

Date of previous issue None

References Not available

Abbreviations and Acronyms ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical

Society)

DOT: US Department of Transportation

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals

HMIS: Hazardous Materials Identification System IARC: International Agency For Research on Cancer

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air

Transport Association" (IATA)

IMDG: International Maritime Code for Dangerous Goods

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration SARA: Superfund Amendments and Reauthorization Act

VOC: Volatile Organic Compound

Disclaimer To the best of our knowledge, the information contained herein

is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these

are the only hazards that exist.