

SAFETY DATA SHEET

1. Product Identification

Product name Epoxy Pigment Dispersion Concentrates

SDS Number 320XA00

Product type Epoxy polymer mixture

Recommended use of the chemical and

restrictions on use

Directed at, but not limited to, the coloring of epoxy-based products.

Restrictions None known.

Manufacturer/Supplier information

Company name SYSTEM THREE RESINS, INC.

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Suite 105

Auburn, WA 98001-2436

United States

Telephone 1-253-333-8118

Website www.systemthree.com

Email support@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 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

WARNING

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

Precautionary Statements

Prevention P280 Wear protective gloves. Wear eye or face protection.

P201 Obtain special instructions before use.

P271 Use only outdoors or in a well-ventilated area.

P264 Wash hands thoroughly after handling.

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. 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

Chemical Name	CAS Number	Content (%)
Diglycidyl Ether of Bisphenol A	25068-38-6	85-95%

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

Storage

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.

Do not give liquids if victim is unconscious of very drowsy. Otherwise, give no Ingestion

> 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.

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 symptoms as they appear.

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 Potential skin irritation. Epoxy in mass can create exotherm. **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 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 Avoid dispersal of spilled material, 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. Persons with a history of

skin sensitization problems should not be employed in any process in which this product is used. Avoid contact with skin and eyes. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. When using, do not eat, drink or smoke. 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 and food and drink. Store locked up. 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.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits None established.

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 controlsUse 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 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.

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

Chemical family Epoxy Resin

Appearance Colored viscous liquid

Physical State Epoxy polymer mixture

Form Liquid

Color Various colors
Odor Little or no odor

 Density (Specific Gravity)
 9.7-9.8 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 limit (by volume)

Upper flammability limit (by volume) N/A

Lower flammability limit (by volume) N/A

Material VOC None

Vapor density

Relative density

Solubility in water

Heavier than air

Not determined

Negligible, in water

Partition coefficient: n-octanol/water 3

Auto-ignition temperature 300°C (572.00°F)

Decomposition temperature Data not available

10.Stability and Reactivity

Reactivity None

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 agents, Lewis and mineral acids.

Hazardous decomposition productsOxides of carbon, aldehydes, acids.

Other hazards None known.

11. Toxicological Information

Acute Health Hazard (components)

No information on product itself.

Component	Result	Species	Dose	Exposure
Diglycidyl Ether of Bisphenol A	LD50 Oral	Rat	11,400 mg/kg	-
	LD50 Dermal	Rat	2,000 mg/kg	-

Irritation/Corrosion (components)

No information on product itself.

Component	Result	Species	Test	Exposure
Diglycidyl Ether of Bisphenol A	Skin – Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	1.5 – 2	-
	Skin – Edema 404 Acute Dermal Irritation/Corrosion	Rabbit	1.0 -1.5	-
	Eyes – 405 Acute Eye Irritation/Corrosion	Rabbit	0	-
	Eyes – Redness of the conjunctivae	Rabbit	0.7	-
	Skin – Moderate irritant	Rabbit		24 hrs
	Eyes – Mild irritant	Rabbit		-

Sensitization No information on product itself.

MutagenicityNo information on product itself.CarcinogenicityNo information on product itself.Reproductive ToxicityNo information on product itself.TeratogenicityNo information on product itself.Specific target organ toxicity (single)No information on product itself.

<u>exposure)</u>

Component	Category	Route of exposure	Target organs
Diglycidyl Ether of Bisphenol A	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated

<u>exposure)</u>

No information on product itself.

<u>Aspiration hazard</u> 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 or irritation

Watering Redness

Inhalation Adverse symptoms may include the following:

Respiratory tract irritation

Coughing

Skin Contact Adverse symptoms may include the following:

Irritation Redness

Not available.

Ingestion No specific data.

Delayed and immediate effects and also

chronic effects from short and long term

exposure

Potential chronic health effects

General Once sensitized, a severe allergic reaction may occur when subsequently

exposed to very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

12. Ecological Information

Ecotoxicity

No information on product itself.

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

No information on product itself.

Bioaccumulative Potential

No information on product itself.

Component	LogPow	BCF	Potential
Diglycidyl Ether of Bisphenol A	2.64 – 3.78	3 – 31 31.00	low

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.

International Transport Regulations

Regulatory information	UN/NA number	Proper Shipping Name	Classes/*PG	Additional Information
DOT		Non-regulated		
TDG		Non-regulated		
IMO/IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorohydrin resin)	Class 9 III	
IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorohydrin resin)	Class 9 III	
*PG: Packing group				

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 5(a)2 – Proposed significant new use rules: Not Listed.

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

California Prop. 65 WARNING: This product contains less than 0.1% of a chemical known to the

State of California to cause cancer.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Oxirane, 2-(phenoxymethyl)-	Yes	No	5 μg/day	No

EPA SARA 302 Extremely Hazardous

Substances

None required.

EPA SARA 302/304/311/312 Hazardous

Chemicals

Acute Health Hazard.

United States inventory (TSCA 8b) All components are listed or exempted.

CANADA

WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic).

Canadian NPRINone RequiredCEPA Toxic substancesNone 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



Date of PreparationApril 15, 2019Date of Last RevisionAugust 8, 2016

Revision # 2.0

More Information 1-253-333-8118

Prepared by System Three Resins Inc.

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