

# Safety Data Sheets (SDS) Updated: January 1, 2023

This file contains Safety Data Sheets for Gel Magic. This is a two-component system. It is imperative that you know whether you need information on the Resin or the Hardener.

Resin: Pages 2-9

Hardener: Pages 10-17

If this is a medical emergency, call 911 or your local poison control center. Seek medical attention.

For technical assistance, call System Three Technical Support at 253-333-8118 option 2.

These SDS are provided pursuant to 29 CFR 1910.1200(g).



# SAFETY DATA SHEET

## 1. Product Identification

**Product name** GelMagic Resin, Part A

SDS Number 1230A00

**Product type** Epoxy polymer mixture.

Manufacturer/Supplier information Directed at, but not limited to, the adhesive of similar and dissimilar

substrates.

**Company name** SYSTEM THREE RESINS, INC.

Address 8517 Commerce Place Dr NE

Lacey, WA 98516 United States

**Telephone** 1-253-333-8118

Website www.systemthree.com

Email support@systemthree.com

Emergency Contact CHEMTEL (U.S. and CANADA) 1-800-704-9215

CHEMTEL (Outside the U.S.) - Call Collect accepted +1-360-256-7365

# 2. Hazard(s) Identification

Classification of substance or mixture/Signal Word

WARNING

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

GHS Label Elements
Hazard Pictograms



**Hazard Statements/Classification of** 

substance or mixture

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

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P264 Wash hands thoroughly after handling.

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

P272 Contaminated work clothing should not be allowed out of the

workplace.

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

protection.

Response P304 + 340 IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

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. P308 + P313 If exposed or concerned: Get medical attention. P401 Store at room temperature in a well-ventilated area.

**Storage** 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 %
Alkyl Glycidyl Ether	17557-23-2	5 – 10 %

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

Disposal

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 contact lenses. Continue to rinse for at

least 10 minutes. Get medical attention.

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.

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

Treat symptomatically. Contact poison treatment specialist immediately if Notes to physician

large quantities have been ingested or inhaled.

Specific treatments No specific treatment.

# 5. Fire-Fighting Measures

Suitable extinguishing media Unsuitable extinguishing media Alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water fog. None known.

**Specific hazards arising from the chemical** In a fire or if heated, a pressure increase will occur and the container may

burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated must be contained and prevented from being discharged to any

waterway, sewer or drain.

**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 leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as

the spilled product.

**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). Water polluting material. May be harmful to the environment if released in large quantities.

Collect spillage.

# 7. Handling and Storage

**Precautions for safe handling**Avoid contact with skin and eyes. Emergency showers and eye wash stations

should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do

not eat, drink or smoke.

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.

# 8. Exposure Controls/Personal Protection

Permissible exposure limit (OSHA) None established.

Threshold limit value (ACGIH) 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 controls**Use 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 protection**Use 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** Blue paste

Physical State Epoxy polymer mixture

Form Paste
Color Blue
Odor Mild

**Density (Specific Gravity)** 9.78 lb/gal (1.17)

**Viscosity** 90,000 cps at 77 °F (25 °C)

pH N/A
Melting point/freezing point N/A
Initial boiling point and boiling range N/A

Flash point >300°F, Pensky-Martens Closed Cup

3

Evaporation rate Slower than ether Flammability (solid, gas) Data not available

Upper/lower flammability limit (by volume) N/A
Upper flammability limit (by volume) N/A
Lower flammability limit (by volume) N/A
Material VOC None

Vapor densityHeavier than airRelative densityNot determinedSolubility in waterNegligible

Partition coefficient: n-octanol/water

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

**Decomposition temperature** N/A

## 10. Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product.

**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 and reducing agents. Lewis and mineral acids.

**Hazardous decomposition products**Oxides of carbon, aldehydes, and acids.

# 11. Toxicological Information

#### **Acute Toxicity**

No comprehensive data is available on the 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	-
Alkyl Glycidyl Ether	LD50 Oral	Rat	4,500 mg/kg	-
	LD50 Dermal	Rabbit	>2,000 mg/kg	-
Benzyl Alcohol	LD50 Oral	Rat	1620 mg/kg	-
	LC50 Inhalation	Rat	>4178 mg/m3	4 h, aerosol

#### Irritation/Corrosion (components)

No information on product itself.

Component	Result	Species	Test	Exposure
Diglycidyl Ether of Bisphenol A	Moderate to severe irritation	Rabbit	Skin	4 h
	Mild irritation	Rabbit	Eye	24 h
Benzyl Alcohol	Irritant	Rabbit	Eye	-

SensitizationNo 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
Alkyl Glycidyl Ether	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated

exposure)

No information on product itself.

Aspiration hazard 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 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 effectsNo known significant effects or critical hazards.

**Numerical measures of toxicity** 

Acute toxicity estimates (ATE<sub>mix</sub>) No specific data.

# 12. Ecological Information

#### **Ecotoxicity**

No information on product itself.

Component	Result	Species	Exposure
Diglycidyl Ether of Bisphenol A	Acute LC50 1.3 mg/l	Fish	96 h
	Acute LC50 2.1 mg/l	Daphnia	48 h
Benzyl Alcohol	Acute LC50 460 mg/l	Fish	96 h
	Acute EC50 230 mg/l	Invertebrates	48 h
	Chronic NOEC 310 mg/l	Algae	72 h

Persistence and degradabilityNo information on product itself.Bioaccumulative PotentialNo information on product itself.

Component	LogPow	BCF	Potential
Diglycidyl Ether of Bisphenol A	2.64 – 3.78	3 – 31 31.00	Low
Benzyl Alcohol	1.05	1.37 (calculated)	-

#### **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

Classes/\*PG

Additional

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.

Proper Shinning Name

#### **International Transport Regulations**

Regulatory

UN/NA number

information	ON, NA Humber	Froper Shipping Name	Classes/ FG	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 gro	up			
Special precautic	ons for user	Transport within user's premises: always	transport in closed	containers that are

**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.

Clean Air Act – Ozone Depleting

Substances (ODS)

This product does not contain nor is it manufactured with ozone depleting

substances.

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

State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or

other reproductive harm.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Oxirane, 2-(phenoxymethyl)-	Yes	No	5 μg/day	No
Oxirane, 2-(chloromethyl)-	Yes	Yes	9 μg/day	No

EPA SARA 302/304/311/312

**Substances** 

Acute Health Hazard

EPA SARA 313 None Required

**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 Preparation January 16, 2020

**Date of Last Revision** September 18, 2019

Revision # 6.0

More Information 1-253-333-8118

**Prepared by** System Three Resins Inc.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.



# SAFETY DATA SHEET

## 1. Product Identification

GelMagic Hardener, Part B **Product name** 

**SDS Number** 1230B00

Product type Amine/Butadiene mixture

Manufacturer/Supplier information Directed at, but not limited to, the adhesive bonding of similar and dissimilar

substrates.

Company name SYSTEM THREE RESINS, INC.

**Address** 8517 Commerce Place Dr NE

Lacey, WA 98516

**United States** 

**Telephone** 1-253-333-8118

Website www.systemthree.com

**Email** support@systemthree.com

**Emergency Contact** CHEMTEL (U.S. and CANADA) 1-800-704-9215

CHEMTEL (Outside the U.S.) - Call Collect accepted +1-360-256-7365

# 2. Hazard(s) Identification

Classification of substance or mixture/Signal Word

**DANGER** 

SKIN CORROSION/IRRITATION - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION – Category 1

SKIN SENSITIZATION - Category 1 ACUTE AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 2

**GHS Label Elements Hazard Pictograms** 







Hazard Statements/Classification of

H315 Causes skin irritation.

May cause an allergic skin reaction. substance or mixture H317

> H318 Causes serious eye damage.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**Precautionary Statements** 

Prevention P261 Avoid breathing vapors.

> P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the

workplace.

P273 Avoid release to the environment.

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

protection.

P281 Use personal protective equipment as required. P285 In case of inadequate ventilation wear respiratory protection.

P308 + P313 If exposed or concerned: Get medical attention.
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.

Call a POISON CENTER or doctor/physician if you feel unwell.

Remove contact lenses if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical

advice/attention.

P313

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

**Storage** 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 (%)
Modified Polyamines	Trade Secret	60-70%
ATBN Polymer	68683-29-4	20-30%
Nonyl Phenol	25154-52-3	0-5%

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

Response

**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** Get medical attention immediately. Call a poison center or physician.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**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.

**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** In case of inhalation of decomposition products in a fire, symptoms may be

delayed. The exposed person may need to be kept under medical surveillance

for 48 hours.

**Specific treatments** No specific treatment.

## 5. Fire-Fighting Measures

Suitable extinguishing media Unsuitable extinguishing media

Specific hazards arising from the chemical

Alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water fog.

None known.

In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated must be contained and prevented from being discharged to any

waterway, sewer or drain.

**Hazardous decomposition products** Decomposition products may include the following materials:

Carbon dioxide, carbon monoxide, nitrogen oxides

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

**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** 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear proper protective clothing, gloves and eye/face protection. Use self-contained breathing

apparatus and chemically protective clothing.

**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.

Methods and materials for containment/cleanup

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as

the spilled product.

**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). Water polluting material. May be harmful to the environment if released in large quantities.

Collect spillage.

# 7. Handling and Storage

Precautions for safe handling Avoid contact with skin and eyes. Emergency showers and eye wash stations

> should be readily accessible. Adhere to work practice rules established by government regulations. Use personal protective equipment. When using, do

not eat, drink or smoke.

**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.

# 8. Exposure Controls/Personal Protection

Permissible exposure limit (OSHA)

None established.

Threshold limit value (ACGIH)

None established.

Appropriate engineering controls

Use only with adequate ventilation. If user operations generate dust, fumes,

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 controls**Use 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 protection**Use 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 Polyamine

**Appearance** Amber colored paste

Physical State Amine/Butadiene mixture

Form Paste
Color Amber
Odor Mild

**Density (Specific Gravity)** 8.40 lb/gal (1.01)

**Viscosity** 60,000 cps at 77 °F (25 °C)

pH N/A
Melting point/freezing point N/A
Initial boiling point and boiling range N/A

Flash point >250°F, Pensky-Martens Closed Cup

Evaporation rate Slower than ether
Flammability (solid, gas) Data not available

Upper/lower flammability limit (by volume) N/A

Material VOC None

Vapor density Heavier than air
Relative density Not determined

Solubility in water Negligible

Partition coefficient: n-octanol/water N/A

## 10. Stability and Reactivity

**Reactivity** No specific test data related to reactivity available for this product.

**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 and reducing agents. Lewis and mineral acids.

**Hazardous decomposition products**Oxides of carbon and nitrogen.

# 11. Toxicological Information

Acute Toxicity No comprehensive data is available on the product itself.

<u>Irritation/Corrosion (components)</u> Classifies as non-corrosive to skin per negative Corrositex Dermal Testing.

Classifies as Serious Eye Damage Category 1 per GHS calculations of additivity.

Component	Test	Species	Result
Modified Polyamines	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin – Corrosive
	OECD 405 Acute Eye Irritation/Corrosion	Rabbit	Eyes - Corrosive

<u>Sensitization</u> No information on product itself.

Component	Species	Result
ATBN Polymer	Guinea Pig	Strong Sensitizer

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.

exposure)

**Aspiration hazard** 

Specific target organ toxicity (repeated

exposure)

No information on product itself.

No information on product itself.

Potential acute health effects

**Eye Contact** Causes serious eye damage.

InhalationMay give off vapor that is irritating to the respiratory system.Skin ContactCauses skin irritation. May cause an allergic skin reaction.

**Ingestion** Harmful if swallowed.

Symptoms related to the physical, chemical

and toxicological characteristics

**Eye Contact** Adverse symptoms may include the following:

Watering Redness

**Inhalation** No data available.

**Skin Contact** Adverse symptoms may include the following:

Pain or irritation

No data available.

**Ingestion** No data available.

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 effectsNo known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates (ATE<sub>mix</sub>)

Route	ATE value
Oral	2344.2 mg/kg
Dermal	2054.1 mg/kg
Inhalation (vapors)	N/A

# 12. Ecological Information

#### **Ecotoxicity**

#### No information on product itself.

Component	Test	Endpoint	Exposure	Species	Result
ATBN Polymer	OECD 202 Invertebrates	Acute EC50	48 h	Invertebrates	>1000 mg/l
	OECD 201 Algae, Growth Inhibition Test	Acute EC50	72 h	Algae	>1000 mg/l
Nonyl Phenol	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute EC50	3 h Static	Bacteria	950 mg/l
	ASTM	Acute EC50	48 h Static	Daphnia	0.085 mg/l
	ASTM	Acute LC50	96 h Static	Fish	0.05 mg/l

#### Persistence and degradability

## No information on product itself.

Component	Test	Period	Result
Nonyl phenol	OECD 301B Ready Biodegradability – CO2	35 days	48.2%
	Evolution Test		

#### **Bioaccumulative Potential**

#### No information on product itself.

Component	LogPow	BCF	Potential
Nonyl Phenol	5.4	740	High

#### **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. (Nonyl Phenol)	Class 9 III	Marine pollutant
IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Nonyl Phenol)	Class 9 III	
*DC D I:				

\*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 12(b) – Proposed significant new use rules: None

Required.

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

Clean Air Act – Ozone Depleting

Substances (ODS)

This product does not contain nor is it manufactured with ozone depleting

substances.

Clean Air Act Section 112(b) Hazardous

Air Pollutants (HAPs)

Product Name	Concentration %
Phenol	0 – 1%
Diethanolamine	

Pennsylvania – RTK

Phenol.

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

State of California to cause cancer.

EPA SARA 302/304/311/312

Substances

**EPA SARA 313** 

Form R – Reporting requirements

Ingredient Name	Cance	r	Reproductive
Diethanolamine	Yes.		No.
Product Name		Concentrati	on %
Phenol		0 – 1%	
Diethanolamine		0 - 1%	

**CERCLA Hazardous Substances** 

Component	%	Section 304 CERCLA Hazardous Substance	CERCLA Reportable Quantity (Lbs)	Product Reportable Quantity (Lbs)
Phenol	1	Listed		
Diethanolamine	1		100	

**United States inventory (TSCA 8b)** 

All components are listed or exempted.

**CANADA** 

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

Class E: Corrosive material.

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 PreparationJanuary 16, 2020Date of Last RevisionSeptember 18, 2019

Revision # 5.0

More Information 1-253-333-8118

**Prepared by** System Three Resins Inc.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.