

SAFETY DATA SHEET

1. Product Identification

Product name Quick Cure – 15 Minute, Part A

SDS Number 1010A000

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, Suite

Suite 105

Auburn, WA 98991-2436

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 WARNING

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

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 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	90-100%
Diglycidyl Ether of Bisphenol F	28064-14-4	1-10%

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

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.

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.

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 physicianTreat symptoms as they appear. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.

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 Hazardous decomposition products Potential skin irritation. Epoxy in mass can create exotherm. 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

Fire-fighters should wear appropriate protective equipment and self-contained

breathing apparatus (SCBA) with a full face-piece operated in positive pressure

without suitable training.

Special protective equipment for fire-

fighters

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.

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 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 Clear viscous liquid

Physical State Epoxy polymer mixture

Form Liquid

Color Water clear

Odor Little or no odor

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

3

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

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

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 products Oxides of carbon, aldehydes, acids.

Other hazards None known.

11. Toxicological Information

Acute Health Hazard (components)

No comprehensive data (ingestion, inhalation, dermal) on mixture (product).

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)

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		-

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 (singleNo information on product itself.

exposure)

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

Diglycidyl Ether of Bisphenol F Category 3 Respiratory tract irritation

Specific target organ toxicity (repeated

exposure)

Not available.

<u>Aspiration hazard</u> Not available.

Potential acute health effects

Eye ContactCauses serious eye irritation.InhalationMay 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.

<u>Delayed and immediate effects and also</u> <u>chronic effects from short and long term</u>

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.

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
Diglycidyl Ether of Bisphenol F	3	-	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

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 (Cargo)	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL-A EPICHLOROHYDRIN RESIN)	Class 9 III	
*PG: Packing grou	р	•		
Special precaution	ns for user:	Transport within user's premises: alwa	vs transport in closed	containers that are

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.

do in the event of an accident or spillage.

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

upright and secure. Ensure that persons transporting the product know what to

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. 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 Extremely Hazardous

None required.

Substances

EPA SARA 302/304/311/312 Hazardous

Acute Health Hazard.

Chemicals

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

Health 2
Flammability 1
Physical Hazard 0

Date of Preparation2/14/2017Date of Last Revision12/7/2016

Revision # 3.0

More Information 1-253-333-8118

Prepared by N. Kim, 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

Product name Quick Cure - 15 Adhesive Part B

SDS Number 1010B00

Product type Mercaptan/Amine polymer mixture

Recommended use of the chemical and

restrictions on use

Directed at, but not limited to, the adhesion of wood, similar and dissimilar

substrates.

Restrictions None known.

Manufacturer/Supplier information

Company name SYSTEM THREE RESINS, INC. **Address** 3500 W. Valley Hwy, Suite

Suite 105

Auburn, WA 98991-2436

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

Acute toxicity - Oral Category 4 Acute toxicity - Dermal Category 4 Skin Irritation - Category 2 Eye Irritation – Category 2 Skin Sensitization - Category 1 Germ Cell Mutagenicity - Category 2 Specific Target Organ Toxicity - Category 2

GHS Label Elements Hazard Pictograms





Hazard Statements/Classification of

substance or mixture

H302 Harmful if swallowed.

Harmful in contact with skin. H312

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H320 Causes eye irritation.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated

exposure.

Precautionary statements

Precautionary Statements P264 Wash hands thoroughly after handling. **Prevention** P270 Do not eat, drink, or smoke when using this product.

P280 Wear protective clothing, gloves, eye, and face protection.

P201 Obtain special instructions before use.

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

understood.

Response P301+P330+P314 IF SWALLOWED: Rinse mouth and get medical attention

if you feel unwell.

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 and remove contacts if present and easy to do so. Continue rinsing.
P337+P313 IF EYE IRRITATION PERSISTS: Get medical attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

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 (%)
Polymercaptan Resin	Trade Secret	80 - 100 %
Dimethylamino(methyl)phenol	25338-55-0	0 – 10%
Phenol, 2,4,6-Tris((dimethylamino)methyl)-	90-72-2	<2%
Phenol	108-95-2	<2%

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. Remove contacts if

present and easy to do so. Seek medical attention, if irritation or symptoms of

overexposure persist.

Ingestion If swallowed, do NOT induce vomiting. Call a physician or poison control center

immediately. Never give anything by mouth to an unconscious person. Turn

victim's head to the side.

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 Symptomatic and supportive therapy as needed. Following severe exposure

medical follow-up should be monitored for at least 48 hours.

Specific treatments No specific treatment.

5. Fire-Fighting Measures

Suitable extinguishing media Unsuitable extinguishing media Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical, Water Fog None known.

Specific hazards arising from the chemical Potential skin irritation. Incomplete combustion may form carbon monoxide.

> May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

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-

Hazardous decomposition products

fighters

Further information

Avoid contact with skin. A face shield should be worn. Use personal protective equipment. Wear self-contained breathing apparatus for fighting if necessary. 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 appropriate respirator when ventilation is inadequate. Wear proper protective clothing,

gloves and eye/face 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.

Methods and materials for containment/cleanup

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

Contain spills with an inert absorbent material such as soil or sand. Prevent

from spreading by covering, diking or other means. Provide ventilation.

environmental pollution (sewers, waterways, soil or air).

7. Handling and Storage

Precautions for safe handling Always wear protective, disposable gloves when handling epoxy products to

prevent exposure. Use with adequate ventilation. Avoid breathing vapor and

contact with eyes, skin and clothing.

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

Occupational Exposure Limits

List	Components	CAS No.	Туре	Value
ACGIH	Phenol	108-95-2	TW	5 ppm
NIOSH	Phenol	108-95-2	REL	5 ppm, 19 mg/m3
OSHA Z1A	Phenol	108-95-2	TWA	5 ppm, 19 mg/m3

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 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. 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 NIOSH approved respiratory device when sanding cured epoxy to

prevent dust in lungs.

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 Mercaptan/Amine curing agent

Appearance Clear viscous liquid

Physical State Amine mixture

Form Liquid

Color Water white
Odor Sulfur like

Density (Specific Gravity) 9.5-9.7 lb/gal (1.1-1.2)

Viscosity 9,000-14,000 cps @ 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)

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 N/A

Auto-ignition 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 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 large mass as the ensuing exotherm may result in heat and smoke, resulting in

hazardous decomposition products.

Incompatible materials Reactive or incompatible with the following materials:

Mineral acids

Strong oxidizing agents

Lewis acids

Hazardous decomposition products Oxides of carbon, aldehydes, acids.

Other hazards None known.

11. Toxicological Information

Acute Health Hazard (components)

No comprehensive data (ingestion, inhalation, dermal) on mixture (product).

Component	Result	Species	Dose	Exposure
Phenol, 2,4,6- Tris((dimethylamino)methyl)-	LD50 Oral	Rat	2,169 mg/kg	-
Phenol	LD50 Dermal	Rat	660 mg/kg	-
	LD50 Oral	Expert judgment	300 mg/kg	-

Irritation/Corrosion (components)

No information on product itself.

Component	Result	Species	Test	Exposure
Phenol, 2,4,6- Tris((dimethylamino)methyl)-	Skin – Corrosive	Rabbit	OECD 404 Acute Dermal Irritation/Corrosion	-
	Eyes – Severe Irritation	Rabbit	OECD 405 Acute Eye Irritation/Corrosion	-
Dimethylamino(methyl)phenol	Skin – Severe Irritation		OECD 404 Acute Dermal Irritation/Corrosion	-
	Eye – Severe Irritation		OECD 405 Acute Eye Irritation/Corrosion	-

 Sensitization
 No information on product itself.

 Mutagenicity
 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)

Aspiration hazard

Not available.

Potential acute health effects

Eye Contact Severe eye irritation.

Inhalation Not available.

Skin Contact Harmful in contact with skin.

Ingestion Harmful if swallowed.

Symptoms related to the physical, chemical and

toxicological characteristics

Eye Contact

Inhalation

Not available.

Skin ContactNot available.IngestionNot available.

Delayed and immediate effects and also chronic

effects from short and long term exposure

<u>Potential chronic health effects</u> Not available.

General May cause sensitization by skin contact.

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 (ATEmix)

Route	ATE value
Oral	585.6 mg/kg
Dermal	660 mg/kg
Inhalation (vapors)	900 mg/l

Not available.

Not available.

12. Ecological Information

Ecotoxicity

No information on product itself.

Component	Test	Endpoint	Exposure	Species	Result
2,4,6- tris(dimethylaminomethyl)phenol	201 Alga, Growth Inhibition Test	Acute EC50	72 hr	Aquatic plants – Green Algae	84 mg/l
Phenol		Acute EC50	48 hr	Daphnia magna	4 – 7 mg/l

Persistence and degradability

No information on product itself.

Bioaccumulative Potential

No information on product itself.

Component	LogPow	BCF	Potential
Phenol	-	-	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 productsThe 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		Non-regulated		
IATA (Cargo)	UN3334	AVIATION REGULATED LIQUID, N.O.S. (Mercaptan-terminated polymer)	Class 9 III	
*PG: Packing grou	ıρ			
Special precaution	ns for user:	Transport within user's premises: always	s transport in closed	d 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 E/a/2 Final significant new use rules. Not Listed

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.

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)

This product does not contain nor is it manufactured with hazardous air $% \left\{ 1\right\} =\left\{ 1\right\} =\left\{$

pollutants.

California Prop. 65 This product contains chemicals known to the state of California to cause

cancer, birth defects, or other reproductive harm.

EPA SARA 302 Extremely Hazardous

Substances

None Required

EPA SARA 302/304/311/312 Hazardous Acute Health Hazard

Chemicals

SARA 313 None Required

Form R - Reporting requirements

CERCLA Hazardous substances 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

Health 2
Flammability 1
Physical Hazard 0

Date of Preparation September 2, 2016

Date of Last Revision

Revision # 1.0

More Information 1-253-333-8118

Prepared byN. Kim, System Three Resins Inc.

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