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1. Product and Company Identification

Product Code: 1-RCB

**Product Name:** Epoxy Systems, Inc.

Company Name: 20774 W Pennsylvania Ave

ennsylvania Ave +1 (352) 489-1666

Dunnellon, FL 34431

**Emergency Contact:** (USA) PERS (1-800-633-8253(US);

(International) 1-801-629-0667(outside USA)

Intended Use: Industrial floor coatings.

### 2. Hazards Identification

Skin Sensitization, Category 1A
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1
Acute Toxicity: Oral, Category 4





Warning Danger

GHS Hazard Phrases: H317 - May cause an allergic skin reaction.

H314 - Causes severe skin burns and eye damage. H302 - Harmful if swallowed. H332 - Harmful if inhaled.

H312 - Harmful in contact with skin.

GHS Precaution Phrases: P281 - Use personal protective equipment as required.

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

P262 - Do not get in eyes, on skin, or on clothing. P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated

clothing. Rinse skin with water/shower. P333+313 - If skin irritation or rash occurs, seek

medical advice/attention.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P313 - Get medical

advice/attention.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get

immediate medical advice/attention.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P309+311 - Call a POISON CENTER or doctor/physician if

exposed or you feel unwell.

**GHS Storage and Disposal** 

Phrases:

P404 - Store in a closed container. P501 - Dispose of contents/container to local, state,

and federal authority requirements.

**OSHA Regulatory Status:** This material is classified as hazardous under OSHA regulations.

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**Potential Health Effects** May cause sensitization. May cause skin irritation or burns. May cause respiratory tract

(Acute and Chronic): irritation. May cause allergic skin reaction. Can cause severe eye irritation.

Inhalation: Corrosive to respiratory tract. May cause respiratory sensitization.

Skin Contact: Contact with substance may cause severe burns to skin. Symptoms may include

redness, edema, drying, defatting and cracking of the skin.

**Eye Contact:** Corrosive/irritation to eyes. Causes eye burns.

Ingestion: Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal

tract if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway,

esophagus and possibly the digestive tract.

Medical Conditions Generally Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

Aggravated By Exposure:

# 3. Composition/Information on Ingredients

CAS#	Hazardous Components (Chemical Name)	Concentration
84852-15-3	Phenol, 4-nonyl-, branched	40 - 60 %
9046-10-0	*Poly(oxy(methyl-1,2-ethanediyl)	30 - 45 %
15520-10-2	1,5-Pentanediamine, 2-methyl-	1.0 - 10 %
98-54-4	4-tert-Butylphenol	1.0 - 10 %
1477-55-0	1,3-Benzenedimethanamine	1.0 - 10 %
2579-20-6	1,3-Cyclohezanebis(methylamine)	1.0 - 10 %

### 4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention

immediately.

In Case of Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water.

Remove contaminated clothing and shoes. Get medical attention if irritation develops or

persists.

In Case of Eye Contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.

Assure adequate flushing by separating the eyelids with fingers. Get medical attention

immediately.

In Case of Ingestion: If swallowed, wash out mouth with water provided person is conscious. Do not induce

vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or

having convulsions. Get medical attention immediately.

Signs and Symptoms Of

Exposure:

Eyes: Symptoms may include discomfort or pain, excess blinking and tear production,

with marked redness and swelling of the conjunctiva.

Skin: Can cause severe skin burns. Symptoms may include redness, edema, drying,

defatting and cracking of the skin.

Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and

cough.

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5. Fire Fighting Measures

Flash Pt: > 180.00 F (82.2 C) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: NE UEL: NE

Autoignition Pt: No data.

Suitable Extinguishing Media:CO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing

Do not use a direct water stream, which may spread fire.

Media:

Fire Fighting Instructions: Protective Equipment: Wear self-contained breathing apparatus and protective clothing

to prevent contact with skin and eyes.

Flammable Properties and

Haranda.

Combustible material: may burn but does not ignite readily.

Hazards:

### 6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental Precautions:
Steps To Be Taken In Case

Prevent entry into waterways, sewers, basements or confined areas.

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.

Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

Material Is Released Or

Spilled:

## 7. Handling and Storage

Precautions To Be Taken in

Handling:

Provide adequate ventilation. Wear all personal protection required in section 8.

Precautions To Be Taken in Storing:

Keep container tightly closed in a dry and well-ventilated place. Store away from

incompatible material.

Other Precautions: Wash thoroughly after handling.

# 8. Exposure Controls/Personal Protection

CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits		
84852-15-3	Phenol, 4-nonyl-, branched	No data.	No data.	No data.		
9046-10-0	*Poly(oxy(methyl-1,2-ethanediyl)	No data.	No data.	No data.		
15520-10-2	1,5-Pentanediamine, 2-methyl-	No data.	No data.	No data.		
98-54-4	4-tert-Butylphenol	No data.	No data.	No data.		
1477-55-0	1,3-Benzenedimethanamine	No data.	CEIL: mg/m3	No data.		
2579-20-6	1,3-Cyclohezanebis(methylamine)	No data.	No data.	No data.		

Respiratory Equipment (Specify Type):

Normally when good engineering controls are used, no respiratory protection is needed. However, if cured product is abraded by sanding or grinding use a NIOSH approved air-purifying respirator. Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**Eye Protection:** Safety glasses, or goggles.

**Protective Gloves:** Nitrile rubber and Neoprene are recommended.

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Other Protective Clothing: Where splashing is possible, full chemically resistant protective clothing, safety glasses

or face shield and boots are required.

**Engineering Controls** 

Good general ventilation should be sufficient to control airborne levels. Safety shower

(Ventilation etc.):

and eye bath.

Work/Hygienic/Maintenance

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash

Practices:

thoroughly after handling.

**Environmental Exposure** 

Controls:

Avoid runoff into storm sewers and ditches which lead to waterways.

### 9. Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: Odor: amine-like.

Appearance: Liquid. amber.

Melting Point: NE
Boiling Point: NE
Decomposition Temperature: NE

Autoignition Pt: No data.

Flash Pt: > 180.00 F (82.2 C) Method Used: Pensky-Marten Closed Cup

Explosive Limits: LEL: NE UEL: NE

NE

Specific Gravity (Water = 1): ~ .9489

Density: ~ 7.914 LB/GL

Vapor Pressure (vs. Air or

\_

Vapor Density (vs. Air = 1): NE
Evaporation Rate: NE
Solubility in Water: No
Saturated Vapor NE

Concentration:

mm Hg):

Percent Volatile: N.A.
VOC / Volume: NP

## 10. Stability and Reactivity

**Reactivity:** Avoid: acids, alkalis, oxidizing agents.

Stability: Unstable [ ] Stable [ X ]

**Conditions To Avoid -** Extreme temperatures.

Instability:

**Incompatibility - Materials To** Avoid strong acids, bases, and oxidizing agents.

Avoid:

Hazardous Decomposition Or Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, and

Byproducts: phenolics.

Possibility of Hazardous Will occur [ ] Will not occur [ X ]

Polymerization:

**Conditions To Avoid -** Will not undergo hazardous polymerization in normal storage conditions.

Hazardous Reactions:

# SAFETY DATA SHEET

#1 Regular Cure Hardener - Part B

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### 11. Toxicological Information

Toxicological Information: May cause sensitization by skin contact. Corrosive! Damages skin and eyes. Irritation or Corrosion:

Symptoms related to

Toxicological

Skin: Contact with substance may cause severe burns to skin. Symptoms may include

redness, edema, drying, defatting and cracking of the skin.

Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, Characteristics:

with marked redness and swelling of the conjunctiva. Permanent eye damage including

blindness could result.

Inhalation: Inhalation of vapors/fumes causes respiratory irritation with throat discomfort,

coughing or difficulty breathing.

Chronic Toxicological

Effects:

Skin sensitization.

## 12. Ecological Information

General Ecological Avoid release to the environment. Do not empty into drains. May be hazardous to the

Information: environment if released in large quantities.

Results of PBT and vPvB

assessment:

No data available.

Persistence and

Not readily biodegradable.

Degradability:

Bioaccumulative Potential: No data available. **Mobility in Soil:** not reported, unknown.

### 13. Disposal Considerations

Waste Disposal Method: Incinerate or dispose of unused material, residues and containers in a licensed facility in

accordance with all applicable local, state and federal regulations. Do not discharge

substance/product into sewage system.

## 14. Transport Information

#### LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Caustic Alkali Liquid, NOS (Polyoxypropylenediamine)(Nonyl phenol) MARINE

POLLUTANT.

Marine Pollutant(s): Nonylphenol.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

**DOT Hazard Class:** 8 **CORROSIVE** 

**UN/NA Number:** UN1719 **Packing Group:** 

**Precautionary Label:** Corrosive! Damages skin and eyes. Avoid skin and eye contact. May cause eye and

skin irritation. May cause skin sensitization. Wear protective equipment and clothing.

Always read MSDS/SDS before use.



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MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Caustic Alkali Liquid, NOS (Polyoxypropylenediamine)(Nonyl phenol) MARINE

POLLUTANT.

Marine Pollutant(s): Nonylphenol.

UN Number: 1719 Packing Group: III

Hazard Class: 8 - CORROSIVE

IMDG EMS Number: FA,SB IMDG MFAG Number:

IMDG EMS Page: Yes

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Caustic Alkali Liquid, NOS (Polyoxypropylenediamine)(Nonyl phenol) MARINE

POLLUTANT.

Marine Pollutant(s): Nonylphenol.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

### 15. Regulatory Information

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
84852-15-3	Phenol, 4-nonyl-, branched	No	No	No
9046-10-0	*Poly(oxy(methyl-1,2-ethanediyl)	No	No	No
15520-10-2	1,5-Pentanediamine, 2-methyl-	No	No	No
98-54-4	4-tert-Butylphenol	No	No	No
1477-55-0	1,3-Benzenedimethanamine	No	No	No
2579-20-6	1,3-Cyclohezanebis(methylamine)	No	No	No

			,
Hazard Categories' defined	[X] Yes	[ ] No	Chronic (delayed) Health Hazard
or SARA Title III Sections	[]Yes [	[X] No	Fire Hazard
311/312 as indicated:	[]Yes [	[X] No	Sudden Release of Pressure Hazard
	[]Yes [	[X] No	Reactive Hazard

This material meets the EPA [X1 Yes [ ] No. Acute (immediate) Health Hazard

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16. Other Information

07/06/2021 Revision Date:

**Hazard Rating System:** 

HEALTH **FLAMMABILITY PHYSICAL** 0 **PPE** Х

HMIS:

Additional Information About CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED

This Product:

NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

Company Policy or

Disclaimer:

The information contained in this MSDS is taken from sources believed to be accurate as of the date hereof; however the Epoxy Systems, Inc. makes no expressed or implied warranty in respect to the accuracy of the information or the suitability of the

recommendations, and assumes no liabilities to any user thereof.

**GHS** format