SAFETY DATA SHEET 24/28 Epoxy Mortar - Hardener- Part B

3

HEALTH

Flammability

Instability

Harmful if inhaled

Harmful if swallowed



	EALTH LAMMABILITY HYSICAL PE	3 1 0 Health	0 Special Hazard	Printed: 10/12/2015 Revision: 10/12/2015
1. Pro	duct and (Company lo	lentification	
Product Code:	24 / 28-RCB			
Product Name:	24 / 28 Epoxy	Mortar Hardene	r- Part B	
Trade Name:	24 / 28 Epoxy	Mortar Hardene	r- Part B	
Manufacturer Information				
Company Name:	Epoxy System	s, Inc.		
	20774 W Penr	nsylvania Ave.		
	Dunnellon, FL	34431		
Phone Number:	+1 (352) 489-	1666		
Emergency Contact:	PERS (USA)		(800) 633-8253	
Alternate Emergency Contact:	PERS (Interna	tional)	+1 (801) 629 0667	
2. Hazards Identification				
GHS Classification	Placard	Key word	GHS hazard phrase	
Skin Corrosion/Irritation, Category 1A	Corrosive	Danger	Causes severe skin burns and eye	e damage
Serious Eye Damage/Eye Irritation, Category 1		Danger	Causes serious eye damage	
Acute Toxicity: Skin, Category 4	Exclamation point	Warning	Harmful in contact with skin	

Acute Toxicity: Oral, Category 4

Acute Toxicity: Inhalation, Category 4

GHS Hazard Phrases

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

- H332 Harmful if inhaled.
- H302 Harmful if swallowed.

GHS Precaution Phrases

P262 - Do not get in eyes, on skin, or on clothing.

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

Exclamation

Exclamation

point

point

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P273 - Avoid release to the environment.

GHS Response Phrases

P302+350 - IF ON SKIN: Gently wash with plenty of soap and water. P361 - Remove/Take off immediately all contaminated clothing. P363 - Wash contaminated clothing before reuse.

Warning

Warning

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P313 - Get medical advice/attention.

GHS Storage and Disposal Phrases

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

Potential Health Effects (Acute and Chronic)

Corrosive to the eyes and may cause severe damage including blindness. Contact causes severe skin irritation and possible burns.

Inhalation

Vapors are extremely irritating and corrosive. Irritating to the nose, throat and respiratory tract.

Skin Contact

Harmful in contact with skin. Can cause chemical burn.

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.

Recommended Exposure Limits

Not established.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. Composition/Information on Ingredients		
Hazardous Components (Chemical Name)	CAS #	Concentration
1. 1,5-Pentanediamine, 2-methyl-	15520-10-2	15 - 25 %
2. *Poly(oxy(methyl-1,2-ethanediyl)	9046-10-0	50 - 75 %
3. Bisphenol-a based epoxy resin	25068-38-6	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. 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.

	5. Fire Fighting Measures		
Flash Pt:	> 200.00 F Method Used: Pensky-Marten Closed Cup		
Explosive Limits:	LEL: NE UEL: NE		
Autoignition Pt:	No data available.		

Fire Fighting Instructions

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Flammable Properties and Hazards

Combustible material: may burn but does not ignite readily.

Hazardous Combustion Products

In a fire, product may produce the following: Carbon monoxide, Carbon dioxide, Fire may produce irritating, corrosive and/or toxic gases.

Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

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

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

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.

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

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

7. Handling and Storage

Hazard Label Information:

Avoid contact with skin and eyes. Do not get on skin and clothing. Avoid inhalation of vapor or mist. Store in a closed container.

Precautions To Be Taken in Handling

Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

Precautions To Be Taken in Storing

Store away from: Acids, Oxidizers, ketones.

Other Precautions

Wash thoroughly after handling.

8. Exposure Controls/Personal Protection				
Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. 1,5-Pentanediamine, 2-methyl-	15520-10-2	No data.	No data.	No data.
2. *Poly(oxy(methyl-1,2-ethanediyl)	9046-10-0	No data.	No data.	No data.
3. Bisphenol-a based epoxy resin	25068-38-6	No data.	No data.	No data.

Protective Equipment Summary - Hazard Label Information:

Neoprene gloves Safety glasses, or goggles. Impervious clothing. Chemical resistant boots

Respiratory Equipment (Specify Type)

Use local exhaust ventilation to maintain airborne concentrations below the TLV, or if values are unknown. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. 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

Chemical resistant gloves.

Other Protective Clothing

Impervious clothing. Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

Engineering Controls (Ventilation etc.)

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

Work/Hygienic/Maintenance Practices

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash 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	
Melting Point:	NE	
Boiling Point:	NE	
Decomposition Temperature:	NE	
Autoignition Pt:	No data.	
Flash Pt:	> 200.00 F Method Used: Pensky-Marten Closed Cup	
Explosive Limits:	LEL: NE UEL: NE	
Specific Gravity (Water = 1):	~ .9364	
Density:	~ 7.81 LB/GL	
Vapor Pressure (vs. Air or mm Hg):	NE	
Vapor Density (vs. Air = 1):	NE	
Evaporation Rate:	NE	
Solubility in Water:	NE	
Percent Volatile:	N.D.	
VOC / Volume:	NE	
HAP / Volume:	NP	
Saturated Vapor Concentration:	NE	
Appearance and Odor	u Liouid Vallamiah	

Odor: ammonia-like. Appearance: Liquid. Yellowish.

10. Stability and Reactivity		
Stability:	Unstable []	Stable [X]
Reactivity		
Avoid: acids, alkalis	, oxidizing agents.	
Conditions To Avoid - In	stability	
Extreme temperature	es.	
Incompatibility - Materia	ls To Avoid	
Strong oxidizing age	ents, acids, ketones.	
Hazardous Decomposition	on Or Byproducts	
Fire may produce irr	itating, corrosive and/or toxic g	gases.
Honordovo do como	aition was derets formend ver dan fi	Sue conditions

Hazardous decomposition products formed under fire conditions. Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Possibility of Hazardous Polymerization:

Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions

Will not undergo hazardous polymerization in normal storage conditions.

11. Toxicological Information

Toxicological Information

May cause sensitization by skin contact.

Chronic Toxicological Effects

Skin sensitization.

Irritation or Corrosion

Corrosive! Damages skin and eyes.

Symptoms related to Toxicological Characteristics

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, 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.

На	zardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1.	1,5-Pentanediamine, 2-methyl-	15520-10-2	n.a.	n.a.	n.a.	n.a.
2.	*Poly(oxy(methyl-1,2-ethanediyl)	9046-10-0	n.a.	n.a.	n.a.	n.a.
3.	Bisphenol-a based epoxy resin	25068-38-6	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

General Ecological Information

Avoid release to the environment. Do not empty into drains. May be hazardous to the environment if released in large quantities.

Results of PBT and vPvB assessment

No data available.

Persistence and Degradability

Not readily biodegradable.

Bioaccumulative Potential

No data available.

Mobility in Soil

not reported, unknown.

13. Disposal Considerations

Waste Disposal Method

I AND TRANSPORT (US DOT)

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

DOT Proper Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S. (Aliphatic Amines)
DOT Hazard Class:	8
DOT Hazard Label:	CORROSIVE
UN/NA Number:	UN1719

	15. Regulatory Information
Pollutant:	No
Number: Marine	FA,SB
Group: IMDG EMS	II
Class: Packing	8 - CORROSIVE
UN Number: Hazard	1719
IMDG/IMO Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S. (Aliphatic Amines)
MARINE TRANSPORT (IMDG/IMO)	
Packing Group:	II
Hazard Class:	8 - CORROSIVE
UN Number:	1719
ICAO/IATA Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S. (Aliphatic Amines)
AIR TRANSPORT (ICAO/IATA)	
Precautionary Label	Corrosive! Damages skin and eyes. Vapors may be harmful to the respiratory tract. May be harmful if swallowed.
Packing Group:	II

Regulatory Information

SARA 302 Extremely Hazardous Substances: None.

SARA Section 311/312: Acute Health Hazard.

SARA 313 Toxic Chemicals: None.

CERCLA Reportable Quantity: None.

16. Other Information

CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED 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 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. **Revision Date:** 10/12/2015

GHS format