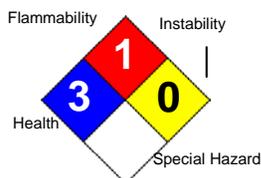


1W- 100% Solids Epoxy Wall Coating Hardener -

Part B



HEALTH	3
FLAMMABILITY	1
PHYSICAL	0
PPE	X



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1. Product and Company Identification

Product Code: 1W-RCB
Product Name: 1W 100% Solids Epoxy Wall Coating Hardener - Part B
Trade Name: 1W 100% Solids Epoxy Wall Coating Hardener - Part B
Manufacturer Information
Company Name: Epoxy Systems, Inc.
 20774 W Pennsylvania
 Dunnellon, FL 34431
Phone Number: +1 (352)489-1666
Emergency Contact: PERS (USA) (800) 633-8253
Alternate Emergency Contact: PERS (International) +1 (801)629-0667
Intended Use: Industrial floor coatings.

2. Hazards Identification

GHS Classification	Placard	Key word	GHS hazard phrase
Skin Corrosion/Irritation, Category 1A	Corrosive	Danger	Causes severe skin burns and eye damage
Serious Eye Damage/Eye Irritation, Category 1	Corrosive	Danger	Causes serious eye damage
Acute Toxicity: Oral, Category 4	Exclamation point	Warning	Harmful if swallowed
Aquatic Toxicity (Acute), Category 2	none		Toxic to aquatic life
Aquatic Toxicity (Chronic), Category 2	Pollution		Toxic to aquatic life with long lasting effects

GHS Hazard Phrases

H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.
 H302 - Harmful if swallowed.
 H401 - Toxic to aquatic life.
 H411 - Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P362+364 - Take off contaminated clothing and wash it before reuse.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 - Wash hands thoroughly after handling.
 P270 - Do not eat, drink or smoke when using this product.
 P273 - Avoid release to the environment.

GHS Response Phrases

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P332+313 - If skin irritation occurs, get medical advice/attention. P363 - Wash contaminated clothing 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.
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.

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P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P314 - Get medical attention/advice if you feel unwell.
P391 - Collect spillage.

GHS Storage and Disposal Phrases

P501 - Dispose of contents/container to local, state, and federal authority requirements. P405 - Store locked up.

Potential Health Effects (Acute and Chronic)

May cause skin irritation or burns. May cause respiratory tract irritation. Can cause severe eye irritation.

Inhalation

May cause respiratory irritation.

Skin Contact

May cause skin irritation or burns.

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.

Medical Conditions Generally Aggravated By Exposure

Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-[1,4-cyclohexanediylbis(methyle ne)]bis[.omega.-(2-aminomethylethoxy)-	1220986-58-2	>85 %

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: > 300.00 F Method Used: 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

Will burn if involved in a fire.

Hazardous Combustion Products

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

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant 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 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. 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

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-[1,4-cyclohexanediylbis(methyle ne)]bis[.omega.-(2-aminomethylethoxy)-	1220986-58-2	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)

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

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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.

Other Protective 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:	541.00 F		
Decomposition Temperature:	NE		
Autoignition Pt:	No data.		
Flash Pt:	> 300.00 F Method Used: Closed Cup		
Explosive Limits:	LEL: NE	UEL: NE	
Specific Gravity (Water = 1):	~ .96		
Density:	~ 8.0 LB/GL		
Vapor Pressure (vs. Air or mm Hg):	NE		
Vapor Density (vs. Air = 1):	NE		
Evaporation Rate:	NE		
Solubility in Water:	No data.		
Solubility Notes	Water soluble.		
Percent Volatile:	N.A.		
VOC / Volume:	NP		
HAP / Volume:	NP		
Saturated Vapor Concentration:	NE		
pH:	10.5		

Appearance and Odor

Odor: amine-like.

Appearance: Liquid. Clear to light yellow.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Reactivity

Avoid: acids, alkalis, oxidizing agents.

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Conditions To Avoid - Instability

Avoid: Uncontrolled reactions with epoxies. Extreme temperatures.

Incompatibility - Materials To Avoid

Avoid: acids, alkalis, oxidizing agents.

Hazardous Decomposition Or Byproducts

Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide, Nitrogen oxides.

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

Polymerization:

Conditions To Avoid - Hazardous Reactions

Will not undergo hazardous polymerization in normal storage conditions.

11. Toxicological Information

Toxicological Information

May be harmful if absorbed through the skin. May be harmful if swallowed.

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.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-[1,4-cyclohexanediylbis(methyle ne)]bis[.omega.-(2-aminomethylethoxy)-	1220986-58-2	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

No data available.

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

Amines, Liquid, Corrosive n.o.s. (AMINE-TERMINATED CYCLOALIPHATIC PROPOXYLATE). Marine.

NOTE: Marine Pollutants - DOT requirements specific to Marine Pollutants do

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not apply to non-bulk packagings transported by motor vehicles, rail cars or aircraft.

DOT Hazard Class: 8
DOT Hazard Label: CORROSIVE
UN/NA Number: UN2735
Packing Group: II
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.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Amines, Liquid, Corrosive n.o.s. (AMINE-TERMINATED CYCLOALIPHATIC PROPOXYLATE). Marine.

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

UN Number: 2735
Hazard Class: 8 - CORROSIVE
Packing Group: II

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name Amines, Liquid, Corrosive n.o.s. (AMINE-TERMINATED CYCLOALIPHATIC PROPOXYLATE). Marine.

Note: The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. Shipment compliance is the responsibility of the person offering the product for transport.

UN Number: Hazard 2735
Class: Packing 8 - CORROSIVE
Group: IMDG EMS II
Number: Marine FA,SB
Pollutant: Yes

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-[1,4-cyclohexanediylbis(methyle ne)]bis[.omega.-(2-aminomethylethoxy)-	1220986-58-2	No	No	No	No

Regulatory Information

SARA Section 311/312: Acute Health Hazard.

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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: 08/30/2015