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 Ave  
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**

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

**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.
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

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.'-[1,4-cyclohexanediylbis(methyl ether)]bis[omega.-2-aminomethyleneoxy].</td>
<td>1220986-58-2</td>
<td>&gt;85 %</td>
</tr>
</tbody>
</table>

### 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.
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

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], .alpha..alpha.-[1,4-cyclohexanediylbis(methylene)bis[omega.-(-2-aminoethyl)oxy]-</td>
<td>1220986-58-2</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

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
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical States:</td>
<td>[ ] Gas [ X ] Liquid [ ] Solid</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>NE</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>541.00 F</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>NE</td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>No data.</td>
</tr>
<tr>
<td>Flash Pt:</td>
<td>&gt; 300.00 F Method Used: Closed Cup</td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: NE UEL: NE</td>
</tr>
<tr>
<td>Specific Gravity (Water = 1):</td>
<td>~ .96</td>
</tr>
<tr>
<td>Density:</td>
<td>~ 8.0 LB/GL</td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg):</td>
<td>NE</td>
</tr>
<tr>
<td>Vapor Density (vs. Air = 1):</td>
<td>NE</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>NE</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>No data.</td>
</tr>
<tr>
<td>Solubility Notes</td>
<td>Water soluble.</td>
</tr>
<tr>
<td>Percent Volatile:</td>
<td>N.A.</td>
</tr>
<tr>
<td>VOC / Volume:</td>
<td>NP</td>
</tr>
<tr>
<td>HAP / Volume:</td>
<td>NP</td>
</tr>
<tr>
<td>Saturated Vapor Concentration:</td>
<td>NE</td>
</tr>
<tr>
<td>pH:</td>
<td>10.5</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Odor: amine-like.</td>
</tr>
<tr>
<td></td>
<td>Appearance: Liquid. Clear to light yellow.</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability:</td>
<td>Unstable [ ] Stable [ X ]</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Avoid: acids, alkalis, oxidizing agents.</td>
</tr>
</tbody>
</table>
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 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 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(methylene ne)]bia(omega.-(2-aminomethylthoxy))- | 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
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**

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly[oxy(methyl-1,2-ethanediyl)], .alpha., .alpha. '-[1,4-cyclohexanediylbis(methylene)bisurea][omega-.(2-aminomethylethoxy)]-</td>
<td>1220986-58-2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Regulatory Information**

SARA Section 311/312: Acute Health Hazard.
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