1. Product and Company Identification

Product Code: 2WB
Product Name: 2W Chemical Resistant Epoxy Wall Coating Hardener Part B
Trade Name: 2W Chemical Resistant 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 Class</th>
<th>Placard Key</th>
<th>GHS Hazard Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sensitization, Category 1A</td>
<td>Exclamation point</td>
<td>H317 - May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation, Category 1B</td>
<td>Corrosive</td>
<td>H314 - Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation, Category 1</td>
<td>Corrosive</td>
<td>H318 - Causes serious eye damage.</td>
</tr>
<tr>
<td>Acute Toxicity: Oral, Category 4</td>
<td>Exclamation point</td>
<td>H400 - Very toxic to aquatic life.</td>
</tr>
<tr>
<td>Aquatic Toxicity (Acute), Category 1</td>
<td>Pollution</td>
<td>H410 - Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>Aquatic Toxicity (Chronic), Category 1</td>
<td>Pollution</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

GHS Hazard Phrases

- H317 - May cause an allergic skin reaction.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H302 - Harmful if swallowed.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.

GHS Precaution Phrases

- P261 - Avoid breathing dust/mist/vapors/spray.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P362+364 - Take off contaminated clothing and wash it before reuse.
- P273 - Avoid release to the environment.

GHS Response Phrases

- P361 - Remove/Take off immediately all contaminated clothing.
- P302+352 - IF ON SKIN: Wash with plenty of soap and water. 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. P337+313 - If eye irritation persists, get medical advice/attention.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P313 - Get medical advice/attention.
- 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.

**Potential Health Effects (Acute and Chronic)**

- **Inhalation**: Vapors are irritating to the respiratory system, may cause throat pain and cough. Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.
- **Ingestion**: Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.
- **Skin Contact**: Causes severe skin irritation. Causes skin burns.
- **Eye Contact**: Corrosive/irritation to eyes. Causes eye burns.

**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>1. Isophoronediamine</td>
<td>2855-13-2</td>
<td>35 - 50 %</td>
</tr>
<tr>
<td>2. Benzenemethanol</td>
<td>100-51-6</td>
<td>35 - 50 %</td>
</tr>
<tr>
<td>3. Talcum</td>
<td>14807-96-6</td>
<td>15 - 25 %</td>
</tr>
<tr>
<td>4. 1,5-Pentanediame, 2-methyl-</td>
<td>15520-10-2</td>
<td>1.0 - 10 %</td>
</tr>
<tr>
<td>5. Silica, amorphous treated</td>
<td>112945-52-5</td>
<td>1.0 - 10 %</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
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

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, 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>1. Isophoronediamine</td>
<td>2855-13-2</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Benzenemethanol</td>
<td>100-51-6</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>3. Talcum</td>
<td>14807-96-6</td>
<td>706 ppm/20 mppcf</td>
<td>2 mg/m3 (non-asbestos)</td>
<td>No data.</td>
</tr>
<tr>
<td>4. 1,5-Pentanediarnine, 2-methyl-</td>
<td>15520-10-2</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>Physical States:</th>
<th>Gas</th>
<th>Liquid</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Pt:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Pt:</td>
<td>&gt; 200.00 F</td>
<td>Method Used: Pensky-Marten Closed Cup</td>
<td></td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: NE</td>
<td>UEL: NE</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (Water = 1):</td>
<td>~ 1.164</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density:</td>
<td>~ 9.71 LB/GL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg):</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density (vs. Air = 1):</td>
<td>NE NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Soluble</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>N.A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Percent Volatile:</td>
<td>NP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC / Volume:</td>
<td>NP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HAP / Volume:</td>
<td>NE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturated Vapor Concentration:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Appearance and Odor**


---

## 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability:</th>
<th>Unstable [ ]</th>
<th>Stable [ X ]</th>
</tr>
</thead>
</table>

**Reactivity**

Avoid: acids, Avoid uncontrolled contact with isocyanates. Avoid: Uncontrolled reactions with epoxies.

**Conditions To Avoid - Instability**

Extreme temperatures.

**Incompatibility - Materials To Avoid**

Avoid strong acids, bases, and oxidizing agents.

**Hazardous Decomposition Or Byproducts**

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

**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**

May cause sensitization by skin contact. May cause skin irritation or burns. Can cause eye irritation or burns.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Isophoronediamine</td>
<td>2855-13-2</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>2. Benzenemethanol</td>
<td>100-51-6</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>3. Talcum</td>
<td>14807-96-6</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>4. 1,5-Pentanediame, 2-methyl-</td>
<td>15520-10-2</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>5. Silica, amorphous treated</td>
<td>112945-52-5</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

---

## 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

Inincinerate 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, N.O.S. (Contains Nonyl Phenol, Modified Cycloaliphatic Amines)

DOT Hazard Class: 8

DOT Hazard Label: CORROSIVE

UN/NA Number: UN1719

Packing Group: III

Precautionary Label: Corrosive! Damages skin and eyes. May cause sensitization by skin contact. May be harmful if swallowed.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains Nonyl Phenol, Modified Cycloaliphatic Amines)

UN Number: 1719

Hazard Class: 8 - CORROSIVE

Packing Group: III

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains Nonyl Phenol, Modified Cycloaliphatic Amines) MARINE POLLUTANT.

UN Number: Hazard 1719

Class: Packing 8 - CORROSIVE

Group: IMDG EMS III

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>1. Isophoronediamine</td>
<td>2855-13-2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Benzenemethanol</td>
<td>100-51-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>3. Talcum</td>
<td>14807-96-6</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>4. 1,5-Pentanediame, 2-methyl-</td>
<td>15520-10-2</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>5. Silica, amorphous treated</td>
<td>112945-52-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Regulatory Information

SARA Section 311/312: Acute, Chronic 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

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