# 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>214-RCB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>214 Clear Casting Resin Hardener- Part B</td>
</tr>
<tr>
<td>Trade Name:</td>
<td>214 Clear Casting Resin Hardener- Part B</td>
</tr>
</tbody>
</table>

**Manufacturer Information**

- **Company Name:** Epoxy Systems, Inc.
- **Address:** 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.

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# 2. Hazards Identification

<table>
<thead>
<tr>
<th>GHS Classification</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS hazard phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sensitization, Category 1B</td>
<td>Exclamation</td>
<td>Warning</td>
<td>May cause an allergic skin reaction</td>
</tr>
<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</td>
<td>Warning</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>Acute Toxicity: Inhalation, Category 4</td>
<td>Exclamation</td>
<td>Warning</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>Acute Toxicity: Skin, Category 4</td>
<td>Exclamation</td>
<td>Warning</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>Respiratory Sensitization, Category 1B</td>
<td>Health hazard</td>
<td>Danger</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled</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.
- H332 - Harmful if inhaled.
- H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**GHS Precaution Phrases**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P285 - In case of inadequate ventilation wear respiratory protection.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P262 - Do not get in eyes, on skin, or on clothing.
- P362+364 - Take off contaminated clothing and wash it before reuse.

**GHS Response Phrases**

- P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P313 - Get medical advice/attention.
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.

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>Isophoronediamine</td>
<td>2855-13-2</td>
<td>90 - 100 %</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.

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash Pt:</strong></td>
<td>&gt; 200.00 F</td>
</tr>
<tr>
<td><strong>Explosive Limits:</strong></td>
<td>LEL: NE</td>
</tr>
<tr>
<td></td>
<td>UEL: NE</td>
</tr>
<tr>
<td><strong>Autoignition Pt:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Method Used:</strong></td>
<td>Pensky-Marten Closed Cup</td>
</tr>
</tbody>
</table>

**Fire Fighting Instructions**

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

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**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.

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**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

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

Physical States:  [ ] Gas  [ ] Liquid  [ x ] 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):  ~ 1.009
Density:  ~ 8.42 LB/GL
Vapor Pressure (vs. Air or mm Hg):  NE
Vapor Density (vs. Air = 1):  NE NE
Evaporation Rate:  Soluble
Solubility in Water:  N.A.
Percent Volatile:
VOC / Volume:  NP
HAP / Volume:  NP
Saturated Vapor Concentration: NE

Appearance and Odor
Odor: amine-like.
Appearance: Liquid. amber.

10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

Reactivity
Avoid: acids, alkalis, oxidizing agents.

Conditions To Avoid - Instability
Extreme temperatures.

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

Hazardous Decomposition Or Byproducts
Carbon dioxide, Carbon monoxide, 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.

<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>Isophoronediamine</td>
<td>2855-13-2</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
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: Isophoronediamine.
- DOT Hazard Class: 8
- DOT Hazard Label: CORROSIVE
- UN/NA Number: UN2289
- Packing Group: III
- 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: Isophoronediamine.
- UN Number: 2289
- Hazard Class: 8 - CORROSIVE
- Packing Group: III

MARINE TRANSPORT (IMDG/IMO)
- IMDG/IMO Shipping Name: Isophoronediamine.
- UN Number: 2289
- Class: Packing 8 - CORROSIVE
- Group: IMDG EMS III
- Number: Marine FA,SB
- Pollutant: No

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>Isophoronediamine</td>
<td>2855-13-2</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

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.

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