1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : EPIKURE™ 3300 Curing Agent
Product code : K9110
MSDS Number : 4197
Product Type : Curing agent.
Manufacturer, importer, supplier : Hexion Specialty Chemicals, Inc.
P. O. Box 4500
Houston TX 77210
Contact person : hsebox@hexion.com
Telephone : General Information:
(832) 486-6700
Emergency telephone:
CHEMTREC US Domestic (800) 424-9300
CHEMTREC International (703) 527-3887

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Human health hazards : May be corrosive to the eyes. May be corrosive to the skin.
Slightly toxic and may be harmful if absorbed through the skin.
May be harmful if swallowed. Irritating to respiratory system.
May cause skin sensitization.

Safety hazards : Material will not burn unless preheated.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isophoronediamine</td>
<td>2855-13-2</td>
<td>100 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES
Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Skin contact: Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention.

Eye contact: Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Rinse continuously with water while on the way to get medical attention.

Ingestion: Do not induce vomiting. Have victim rinse out mouth with water, then drink sips of water to remove taste from mouth. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water fog, "alcohol foam", dry chemical or carbon dioxide.

Specific hazards during fire fighting: DANGER. Corrosive. Material will not burn unless preheated.

Evacuate the area of all non-essential personnel. Cool fire exposed containers with water. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Special protective equipment for fire-fighters: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Corrosive. May burn although not readily ignitable. Prevent all bodily contact with spilled material.
Use cautious judgement when cleaning up large spills. Shut off leaks, if possible without personal risk. Remove ignition sources.

Environmental precautions: Dike and contain. Contain run-off and dispose of properly. Prevent from entering into drains, ditches or rivers.

Clean-up methods - small spillage: Take up with an absorbent material and place in non-leaking containers. Seal tightly for proper disposal.

Clean-up methods - large spillage: Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue.

Additional advice: Notify authorities if any exposures to the general public or environment occurs or is likely to occur. See Section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE

Handling
Advice on safe handling: Do not get in eyes, on skin or on clothing. Do not taste or swallow. Do not breathe material. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated contact with skin, eyes and clothing. Wash thoroughly after handling. DANGER. May be corrosive to the eyes. May be corrosive to the skin. Slightly toxic and may be harmful if absorbed through the skin. May be harmful if swallowed. Causes respiratory tract irritation. May cause skin sensitization. Containers, even those that have been emptied, can contain hazardous product residues. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

Storage
Requirements for storage areas and containers: Keep containers closed when not in use.
SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective measures: Wear appropriate respirator and full-body protective clothing.

Engineering measures: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for emergency use.

Eye protection: Do not get in eyes. Wear chemical goggles and face shield.

Skin and body protection: Do not get on skin, on clothing. Wear chemical-resistant protective clothing such as gloves, outer clothing or apron, overshoes and a face-shield suitable to potential exposure.

Respiratory protection: Do not breathe vapors or mists. Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR 1910.134, the types of respirator(s) to be considered include: Full-Face Air-Purifying Respirator for Organic Vapors. Full-Face Supplied-Air Respirator.

Exposure Guidelines

<table>
<thead>
<tr>
<th>Components with workplace control parameters</th>
<th>Regulation</th>
<th>Exposure time</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isophoronediamine</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td>None established.</td>
</tr>
</tbody>
</table>

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Colour: Colourless

Odour: Amine

pH: 14

Melting / freezing point: 10 °C (50 °F)

Boiling point: 247 °C (477 °F)

Flash point: 112 °C (234 °F) (Closed cup)
Vapour pressure: 0.01 mbar at 25 °C (77 °F)
Relative density: 0.924
Solubility in water: Completely miscible.

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid: Avoid high temperatures.
Hazardous reactions: Stable under normal use conditions.
Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: Moderately toxic, 400 < LD50 <= 2000 mg/kg.
Acute dermal toxicity: Moderately toxic, 1 < LC50 <= 5 mg/l.

Chronic Health Hazard

<table>
<thead>
<tr>
<th>Components</th>
<th>Concentration</th>
<th>Regulation</th>
<th>Value</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isophoronediamine</td>
<td>100 %</td>
<td>US. IARC Monographs on Occupational Exposures to Chemical Agents</td>
<td></td>
<td>This component has not been classified by the International Agency for Research on Cancer (IARC).</td>
</tr>
</tbody>
</table>

Potential Health Effects

Inhalation: Irritating to respiratory system. Not expected to be a relevant route of exposure, however, under conditions where exposure to vapors or mists is possible, could cause respiratory tract irritation.

Skin: May be corrosive to the skin. Slightly toxic and may be harmful if absorbed through the skin. May cause skin sensitization.
EPIKURE™ 3300 Curing Agent

Eyes
May be corrosive to the eyes and may cause severe damage, including blindness.

Ingestion
May be harmful if swallowed.

SECTION 12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)
Biodegradability
This section will be updated as ecological reviews are completed.

Ecotoxicity effects
Toxicity to fish
This section will be updated as ecological reviews are completed.

SECTION 13. DISPOSAL CONSIDERATIONS

Product disposal
If this material becomes a waste material, it would be a corrosive hazardous waste, hazardous waste number D002 (40 CFR 262). Refer to the latest EPA or state regulations regarding proper disposal.

SECTION 14. TRANSPORT INFORMATION

DOT
UN/NA-No: 2289
Class: 8
Packing group: III
ERG No.: 153
Proper shipping name: ISOPHORONEDIAMINE

IMDG
UN-Number: 2289
Class: 8
Packaging group: III
EmS: F-A S-B
Description of the goods: ISOPHORONEDIAMINE
IATA Cargo

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>Class</th>
<th>Packaging group</th>
<th>ERG No.</th>
<th>Description of the goods</th>
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<tbody>
<tr>
<td>2289</td>
<td>8</td>
<td>III</td>
<td>153</td>
<td>ISOPHORONEDIAMINE</td>
</tr>
</tbody>
</table>

SECTION 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Notification status

- AICS: Listed.
- DSL: Listed.
- INV (CN): Listed.
- TSCA: Listed.
- EINECS: Listed.
- PICCS (PH): Listed.

Notification status Legend

- y = Yes (Listed);
- AICS = Australian Inventory of Chemical Substances;
- DSL = Canadian Domestic Substances List;
- INV(CN) = Inventory of Existing Chemicals Substances in China;
- ENCS(JP) = Japanese Existing and New Chemical Substances;
- TSCA = Toxic Substance Control Act;
- EINECS = European Inventory of New and Existing Chemicals;
- KECI(KR) = Korean Existing Chemicals Inventory;
- PICCS(PH) = Philippine Inventory of Chemicals and Chemical Substances

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Isophoronediamine No RQ
### SARA 311/312 Hazards

- Acute Health Hazard
- Chronic Health Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>De minimis Concentration</th>
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</thead>
<tbody>
<tr>
<td>Isophoronediamine</td>
<td>No</td>
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</table>

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Threshold Planning Quantity</th>
<th>Reportable Quantity</th>
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<tbody>
<tr>
<td>Isophoronediamine</td>
<td>No TPQ</td>
<td>No RQ</td>
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</table>

**New Jersey Right-To-Know Chemical List**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Isophoronediamine</td>
<td>Not Listed</td>
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</tbody>
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**Pennsylvania Right-To-Know Chemical List**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Isophoronediamine</td>
<td>Not Listed</td>
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</table>

**Massachusetts Right-To-Know Chemical List**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Isophoronediamine</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

**HMIS Rating**

- Health: 3
- Fire: 1
- Reactivity: 0

### SECTION 16. OTHER INFORMATION

**Reference**

The information provided herein was believed by Hexion Specialty Chemicals ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

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