1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION:

Product Name: Adamantane
Date of Prep: 6/10/09

2. COMPOSITION/INFORMATION ON INGREDIENTS:

<table>
<thead>
<tr>
<th>CHEMICAL INGREDIENT NAME</th>
<th>CAS NUMBER</th>
<th>EC NUMBER</th>
<th>% BY WT.</th>
<th>EXPOSURE LIMITS</th>
<th>EU LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adamantane</td>
<td>281-23-2</td>
<td>206-001-4</td>
<td>99+</td>
<td>None listed</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION: Not available

4. FIRST AID MEASURES:

Inhalation: Remove to fresh air; if not breathing give artificial respiration; if breathing is difficult, give oxygen.
Skin Contact: Immediately wash skin with soap and copious amounts of water.
Eye Contact: Flush eyes with copious amounts of water for 15 minutes.
Ingestion: Wash out mouth with water; call a physician.

5. FIRE-FIGHTING MEASURES:

Flammable Properties: Auto-ignition temperature 287°C
Extinguishing Media: water spray, carbon dioxide, dry chemical powder or appropriate foam.
Unique Aspects Contributing To a Fire:
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Note: Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up into bag and hold for waste disposal. Avoid raising dust. Wash spill site after clean up.

7. HANDLING AND STORAGE: Keep container tightly closed. Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with good laboratory practices.

Respiratory Protection: NIOSH/MSHA approved respirator.
Eye Protection: Chemical safety goggles.
Skin Protection: Compatible, chemical resistant gloves.
Engineering Controls:
9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: slightly beige crystals
Physical State: solid
Odor: none reported
pH: not available

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>not available</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>209-212°C (sublimes)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>not available</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>4.7</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>insoluble</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY:

Hazardous Polymerization: ☑ Will Not Occur ☐ May Occur
Stability: stable

<table>
<thead>
<tr>
<th>Hazardous Decomposition/Combustion Products:</th>
<th>Conditions &amp; Materials to Avoid:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide and carbon dioxide.</td>
<td>Strong oxidizing agents.</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION:

Primary Route(s) of Exposure Under Normal Use: No data available.

Target Organ(s): No data available.

Acute Effects: May be harmful by inhalation, ingestion or skin absorption. May cause eye or skin irritation.

Chronic Effects: No component of this product present at levels greater than or equal to 0.1% is identified as possible, probable or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Other Information: Chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION: Not available.

13. DISPOSAL CONSIDERATIONS: Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION:

U.S. DOT: Shipping Name: None.
         Hazard Class: Non-hazardous for transport.
         UN/NA #:
         Packing Group #:

IATA/ICAO:

15. REGULATORY INFORMATION:

EU Risk/Safety Phrases: Avoid contact with skin and eyes; wear gloves.

U.S. TOSCA: Yes.

Canada: This product has been classified according to the hazard criteria of the CPR and this MSDS contains all the information required by the CPR.

16. OTHER INFORMATION:

<table>
<thead>
<tr>
<th>U.S. EPA SARA</th>
<th>CERCLA RQ</th>
<th>National Fire Protection Association Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>313 Chemicals</td>
<td>CERCLA RQ</td>
<td>HEALTH 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FLAMMABILITY 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REACTIVITY 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OTHER</td>
</tr>
</tbody>
</table>

Notes: Not Established (NE) means a value has not been set or there is no information available. Not Applicable (NA) means that the topic is not pertinent.

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