1. Identification of the substance/preparation and of the company/undertaking

Product name: beta-Lactamase, *Bacillus cereus* 569/H9
Catalog #: 426205
Supplier: Calbiochem-Novabiochem Corp.
10394 Pacific Center Court
San Diego, CA 92121
(858)450-5558/(800)854-3417
FAX: (858)453-3552

Chemical formula: N/A
Emergency telephone number:
- Call Chemtrec®
  - (800)424-9300 (within U.S.A.)
  - (703)527-3887 (outside U.S.A.)

2. Composition / information on ingredients

<table>
<thead>
<tr>
<th>Substance/Preparation</th>
<th>Chemical name*</th>
<th>CAS No.</th>
<th>EC Number</th>
<th>Symbol</th>
<th>R-Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substance</td>
<td>beta-Lactamase, <em>Bacillus cereus</em> 569/H9</td>
<td>9073-60-3</td>
<td>Not available</td>
<td>Xn</td>
<td>R42/43</td>
</tr>
</tbody>
</table>

3. Hazards identification

Physical/chemical hazards: Not applicable.
Human health hazards: May cause sensitization by inhalation and skin contact.

4. First-aid measures

First-Aid measures
- Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Effects and symptoms
- Inhalation: Hazardous in case of inhalation (lung sensitizer).
- Skin Contact: Hazardous in case of skin contact (sensitizer).

Aggravating conditions: Repeated or prolonged exposure is not known to aggravate medical condition.

5. Fire-fighting measures

Extinguishing Media
- Suitable: SMALL FIRE: Use DRY chemical powder.
- Hazardous thermal (de)composition products: LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- Special fire-fighting procedures: These products are nitrogen oxides (NO, NO₂...).
- Protection of fire-fighters: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Protection of fire-fighters: Be sure to use an approved/certified respirator or equivalent.

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6. Accidental release measures

Personal precautions:
- Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Environmental Precautions and Clean-up Methods:
- Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evaporate through the sanitary system.

7. Handling and storage

Handling:
- Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with skin. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.

Storage:
- Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above -20°C (-4°F).

Packaging materials:
- Use original container.

8. Exposure controls/personal protection

Engineering measures:
- Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Hygiene measures:
- Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) beta-Lactamase, Bacillus cereus 569/H9</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Personal protective equipment:
- Respiratory system: Dust respirator. Be sure to use an approved/certified respirator or equivalent.
- Skin and body: Lab coat.
- Hands: Gloves.
- Eyes: Safety glasses.

9. Physical and chemical properties

Physical state:
- Solid. (Powdered solid.)

Color:
- Not available.

Density:
- Not available.

Solubility:
- Not available.

Flash point:
- Not available.

Explosive properties:
- Risks of explosion of the product in presence of mechanical impact: Not available.
- Risks of explosion of the product in presence of static discharge: Not available.

10. Stability and reactivity

Stability:
- The product is stable.

Hazardous Decomposition Products:
- These products are nitrogen oxides (NO, NO2...).

11. Toxicological information

RTECS #:
- OD2265000

Local effects:
- Skin irritation: Not available.
- Sensitization: Hazardous in case of skin contact (sensitizer), of inhalation (lung sensitizer).

Acute toxicity:
- LD50: Not available.
- LC50: Not available.

Chronic toxicity:
- Repeated or prolonged exposure is not known to aggravate medical condition.
12. Ecological information

Ecotoxicity: Not available.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

Land - Road/Railway

ADR/RID Class: Not controlled under ADR (Europe).

Sea

IMDG Class: Not controlled under IMDG.

Air

IATA-DGR Class: Not controlled under IATA.

15. Regulatory information

EU Regulations

Hazard symbol(s):

Classification: Harmful

Risk Phrases: R42/43- May cause sensitization by inhalation and skin contact.

Safety Phrases: S36- Wear suitable protective clothing.

Contains: - beta-Lactamase, Bacillus cereus 569/H9

16. Other information

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Catalog # 426205

Date of issue: 2/12/2002.