Section 1. Identification

Product Identifier: DUAL-ENZYMATIC SURGICAL INSTRUMENT DETERGENT & PRESOAK
Synonyms: MDS88000B9; MDS88000B9H; MDS8800B95; MDS8800B15
Manufacturer Stock Numbers: MDS8800B15; MDS8800B95; MDS88000B9; MDS88000B9
Recommended use: Cleaning agent.
Uses advised against: Keep out of reach of children.
Manufacturer Contact Address: Medline Industries, Inc.
One Medline Place
Mundelein, IL, 60060
USA
Phone: (800) 633-5463
Emergency Phone: (800) 424-9300
Fax: (847) 643-4436
Website: www.Medline.com

Section 2. Hazards Identification

Classification: EYE DAMAGE/IRRITATION - Category 2B
Signal Word: Warning
Pictogram: ![Exclamation Mark]

Hazard Statements: Causes eye irritation
Precautionary Statements: Response:
If exposed: Call a Poison Control Center/doctor/physician.
If eye irritation persists: Get medical advice/attention.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if
present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor/physician.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before use.
If skin irritation or rash occurs: Get medical advice/attention. Call a Poison Control Center or doctor/physician if you feel unwell.
If swallowed: Immediately call a poison center/doctor/physician. Rinse mouth.

Prevention
Do not breathe dust/fume/gas/mist/vapors/spray.
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
Use in a well-ventilated area.
Wash hands thoroughly after handling.
Wear protective gloves.

Storage
Store in a closed container, in a cool, dry well-ventilated place away from incompatible materials. Do not store above 86° F (30° C).

Disposal
Dispose of contents/container according to all Local, State, and Federal regulations.

General
Keep out of reach of children and pets.

Ingredients of unknown toxicity
0%

Hazards not Otherwise Classified
Skin: Causes mild skin irritation.
Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Section 3. Ingredients

<table>
<thead>
<tr>
<th>CAS</th>
<th>Ingredient Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>102-71-6</td>
<td>Ethanol, 2,2',2''-nitrilotris-</td>
<td>Proprietary %</td>
</tr>
<tr>
<td>9014-01-1</td>
<td>Subtilisin</td>
<td>Proprietary %</td>
</tr>
</tbody>
</table>

Occupational exposure limits, if available, are listed in Section 8.
## Section 4. First-Aid Measures

<table>
<thead>
<tr>
<th>General Advice:</th>
<th>Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Contact:</td>
<td>Flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Remove contact lenses, if worn. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.</td>
</tr>
<tr>
<td>Skin Contact:</td>
<td>Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water. Do not apply oils or ointments unless ordered by the physician.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.</td>
</tr>
<tr>
<td>Ingestion:</td>
<td>If swallowed, call a physician immediately. Rinse mouth and throat thoroughly with water. Do not induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. If patient is conscious and alert, give large amounts of water. Get medical attention.</td>
</tr>
<tr>
<td>Symptoms:</td>
<td>Skin contact can lead to drying, itching, stinging and irritation. Exposed individuals may experience eye tearing, redness and discomfort.</td>
</tr>
<tr>
<td>Note to Physician:</td>
<td>Treat symptomatically</td>
</tr>
</tbody>
</table>

## Section 5. Fire Fighting Measures

| Suitable Extinguishing Media | In case of fire, use Dry Chemical, Foam and Carbon Dioxide (CO2) |
| Unsuitable Extinguishing Media | N.D. |
| Unusual Fire and Explosion Hazards: | N.D. |
| Special Fire Fighting Procedures: | Self contained breathing apparatus recommended with a full face piece operated in pressure-demand or other positive pressure mode. Self contained breathing apparatus and full protective clothing recommended. |

## Section 6. Accidental Release Measures

| Personal precautions, protective equipment and emergency procedures: | Use personal protection equipment recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. |
| For emergency responders: | Restrict access to spill area. Ventilate the area. |
| Environmental Precautions: | Do not flush into surface water or sanitary sewer system. Should not be released into the environment |
| Non-hazardous Small Spill: | Should be cleaned up at the time of the spill. Take all necessary precautions and wear any personal protective equipment that is applicable. Dispose of per local and state regulations. |
| Non-hazardous Large Spill: | Should be cleaned up at the time of the spill. May require special treatment, equipment and/or emergency assistance. Dispose of per local and state regulations. |
Section 7. Handling and Storage

Handling Non-hazardous: This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

Storage Non-hazardous: Store in original package. Discard unused portion. Do not reuse. No special storage conditions required.

Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Occupational Exposure Limits</th>
<th>Ingredient Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2,2',2''-nitrilotris-</td>
<td>TWA: 5 mg/m³</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Subtilisin</td>
<td>Ceiling: 0.00006 mg/m³</td>
<td>STEL: 0.00006 mg/m³ 60 min.</td>
<td>NIOSH IDLH: 0.00006 mg/m³ 60 min.</td>
<td></td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Goggles, Gloves, Face Shield, Respirator

Engineering Controls:

- Apply technical measures to comply with the occupational exposure limits.

Respiratory Protection:

- No special respiratory protection is recommended under anticipated conditions of normal use with adequate ventilation. A mask or respirator may be used if vapor concentration is high.

Skin Protection:

- Protective gloves: Chemical-resistant. Protective gloves: Impermeable.

Eye Protection:

- Wear chemical safety glasses with side shields or goggles.

Other protective equipment:

- Eye-wash station. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Work/hygienic practices:

- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Safety shower and eye wash should be available close to work areas.
## Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Blue Clear Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Fresh</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>Completely Soluble</td>
</tr>
<tr>
<td>Partition coefficient Water/n-octanol</td>
<td>See section 12</td>
</tr>
<tr>
<td>VOC%</td>
<td>N/A</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N.D.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.07</td>
</tr>
<tr>
<td>Density lbs/Gal</td>
<td>N/A</td>
</tr>
<tr>
<td>Pounds per Cubic Foot</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>FP Method</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>7.4-8.3</td>
</tr>
<tr>
<td>Melting Point</td>
<td>&lt; 23Deg F/ &lt; -5Deg C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212 Deg F/ 100Deg C (Apprx)</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>N/A</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 (Buthyl acetate=1) (Apprx)</td>
</tr>
<tr>
<td>Flammability</td>
<td>N.A.- Liquid</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N.D.</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not Flammable.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N.D.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>&gt; 1 (Air=1) (Apprx)</td>
</tr>
</tbody>
</table>
**Section 10. Stability and Reactivity**

Stability: Stable.
Reactivity: No reactivity expected under normal conditions
Hazardous Decomposition or Byproducts: None known.
Hazardous Polymerization: Will not occur
Conditions to avoid: None known
Possibility of Hazardous Reactions: None under normal use.

**Section 11. Toxicological Information**

Likely Routes of Exposure:
- **Eye**: Causes eye irritation.
- **Skin**: Causes mild skin irritation.
- **Inhalation**: Avoid breathing vapors or mists.
- **Ingestion**: Do not taste or swallow.

Acute Toxicity: Oral LD$_{50}$:
- **Subtilisin (Protease) CAS No. 9014-01-1**
  - Species: Rat
  - 3700 mg/kg

Acute Toxicity: Dermal LD$_{50}$:
- **Subtilisin (Protease) CAS No. 9014-01-1**
  - N.A.

Acute Toxicity: Inhalation LC$_{50}$:
- **Subtilisin (Protease) CAS No. 9014-01-1**
  - N.A.

Acute Toxicity: Oral LD$_{50}$:
- **Triethanolamine CAS No. 102-71-6**
  - Species: Rat
  - 4190 mg/kg

Acute Toxicity: Dermal LD$_{50}$:
- **Triethanolamine CAS No. 102-71-6**
  - Species: Rat
  - 16 ml/kg

Acute Toxicity: Inhalation LC$_{50}$:
- **Triethanolamine CAS No. 102-71-6**
  - N.A.

Information on Toxicological Effects:
- Symptoms: Please see section 4 of this SDS for symptoms.
- Carcinogenicity: The information below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested. Triethanolamine CAS No. 102-71-6
  - ACGIH listed: N.A.
  - Triethanolamine CAS No. 102-71-6
  - IARC listed: Group 3 Group 3 - Not Carcinogenic to Humans.
  - NTP listed: N.A.
  - Triethanolamine CAS No. 102-71-6
  - OSHA listed: N.A.

Respiratory/Skin Sensitization:
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Specific Target Organ Toxicity - Single exposure:
- N.D.

Specific Target Organ Toxicity - Repeated:
- N.D.
Section 12. Ecological Information

Ecotoxicity: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxicity:
- Aquatic Plants
  Benzotriazole CAS No. 95-14-7
  Known Toxin
  Acute Fish Toxicity:
  Benzotriazole CAS No. 95-14-7
  Known Toxin

Toxicity:
- Toxicity in microorganisms:
  Benzotriazole CAS No. 95-14-7
  No information

Toxicity:
- Crustacea
  Benzotriazole CAS No. 95-14-7
  Known Toxin
  Aquatic Plants
  Triethanolamine CAS No. 102-71-6
  Known Toxin
  Acute Fish Toxicity:
  Triethanolamine CAS No. 102-71-6
  Known Toxin

Toxicity:
- Toxicity in microorganisms:
  Triethanolamine CAS No. 102-71-6
  No Information

Toxicity:
- Crustacea
  Triethanolamine CAS No. 102-71-6
  Known Toxin

Persistence and degradability: N.D.
Bioaccumulative potential: N.D.
Mobility in soil: N.D.
Partition Coefficient: Triethanolamine CAS-No. 102-71-6
-1.00
Other adverse effects: Toxic to aquatic life.

Section 13. Disposal

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated packaging: Dispose according to all local, state, and federal regulations.
California Hazardous Waste Status: Borax CAS-No. 1303-96-4
Toxic
### Section 14. Transport Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>N/A</td>
</tr>
<tr>
<td>UN Proper Shipping Name</td>
<td>Not regulated</td>
</tr>
<tr>
<td>DOT Classification</td>
<td>N/A</td>
</tr>
<tr>
<td>Packing Group</td>
<td>N/A</td>
</tr>
<tr>
<td>Note</td>
<td>See current shipping paper for most up to date shipping information, including exemptions and special circumstances.</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

### Section 15. Regulatory Information

**International Inventories:**
- **Legend:**
  - TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
  - DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
  - EINECS/ELINCS - European Inventory of Existing Chemical Substances/ European List of Notified Chemical Substances
  - ENCS - Japan Existing and New Chemical Substances
  - IECSC - China Inventory of Existing Chemical Substances
  - KECL - Korea Existing and Evaluated Chemical Substances
  - PICCS - Philippines Inventory of Chemicals and Chemical Substances

**SARA Title III Section 311/312 Hazard class:** This material does not contain any chemical components with known CAS No. that exceed the threshold reporting levels established by SARA Title III, Section 311/312.

**SARA Title III Section 313 Toxic Chemicals:** This material does not contain any chemical components with known CAS No. that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**New Jersey Right to Know Components:**
- Propylene Glycol CAS-No. 57-55-6

**Massachusetts Right to Know Components:**
- Propylene Glycol CAS-No. 57-55-6
- N.A.

**Pennsylvania Right to Know Components:**
- Propylene Glycol CAS-No. 57-55-6

**New Jersey Right to Know Components:**
- Benzotriazole CAS-No. 95-14-7
  - N.A.

**Massachusetts Right to Know Components:**
- Benzotriazole CAS-No. 95-14-7

**Pennsylvania Right to Know Components:**
- Benzotriazole CAS-No. 95-14-7
  - N.A.

**New Jersey Right to Know Components:**
- Triethanolamine CAS-No. 102-71-6

**Massachusetts Right to Know Components:**
- Triethanolamine CAS-No. 102-71-6

**Pennsylvania Right to Know Components:**
- Triethanolamine CAS-No. 102-71-6

**New Jersey Right to Know Components:**
- Borax CAS-No. 1303-96-4

**Massachusetts Right to Know Components:**
- Borax CAS-No. 1303-96-4

**Pennsylvania Right to Know Components:**
- Borax CAS-No. 1303-96-4
Section 16. Other Information

Revision Date 5/22/2015

Legend
N.A. - Not Applicable
N.E. - Not Established
N.D. - Not Determined

HMIS (U.S.A.): Health Hazard N.D.
HMIS (U.S.A.): Flammability N.D.
HMIS (U.S.A.): Physical Hazard N.D.
HMIS (U.S.A.): Personal Protection N.D.
National Fire Protection Association (U.S.A): Health Hazard 1
National Fire Protection Association (U.S.A): Flammability O
National Fire Protection Association (U.S.A): Instability Hazard O
National Fire Protection Association (U.S.A): Special Hazard N.D.

Additional Information
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