



# Safety Data Sheet

## DUAL ENZYMATIC SURGICAL INSTRUMENT DETERGENT AND PRESOAK

### Section 1. Identification

**Product Identifier** DUAL ENZYMATIC SURGICAL INSTRUMENT DETERGENT AND PRESOAK  
**Synonyms** MDS88000B9; MDS8800B15; MDS8800B95; MSD\_SDS0209  
**Manufacturer Stock Numbers** MDS88000B9; MDS8800B15; MDS8800B95

**Recommended use** Cleaning agent.  
**Uses advised against** Use only as directed.

**Manufacturer Contact Address**  
Medline Industries, Inc.  
3 Lakes Drive  
Northfield, IL, 60093  
USA

**Phone**  
(800) 633-5463

**Emergency Phone**  
(800) 424-9300  
CHEMTREC

**Fax**  
(847) 643-4436

**Website**  
[www.Medline.com](http://www.Medline.com)

### Section 2. Hazards Identification

**Classification** EYE DAMAGE/IRRITATION - Category 2B  
**Signal Word** Warning  
**Pictogram**



Hazard Statements	Causes eye irritation
Precautionary Statements	
Response	<p>Get medical advice/attention if you feel unwell.</p> <p>If exposed: Call a Poison Control Center/doctor/physician.</p> <p>If eye irritation persists: Get medical advice/attention.</p> <p>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.</p> <p>If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.</p> <p>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before use.</p> <p>If skin irritation or rash occurs: Get medical advice/attention. Call a Poison Control Center or doctor/physician if you feel unwell.</p> <p>If swallowed: Immediately call a poison center/doctor/physician. Rinse mouth.</p>
Prevention	<p>Do not breathe dust/fume/gas/mist/vapors/spray.</p> <p>Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.</p> <p>Use in a well-ventilated area.</p> <p>Wash affected area thoroughly after handling.</p> <p>Wear protective gloves, eye protection.</p>
Storage	<p>Store at temperatures not exceeding 30°C/86°F.</p> <p>Store in a closed container, in a cool, dry well-ventilated place away from incompatible materials. Do not store above 86° F (30° C).</p>
Disposal	Dispose according to all local, state and federal regulations.
General	Keep out of reach of children and pets.
Ingredients of unknown toxicity	N.A.
Hazards not Otherwise Classified	None known.

<b>Section 3. Ingredients</b>
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CAS	Ingredient Name	Weight %
9014-01-1	Subtilisin	Proprietary %

\* The exact percentage is a trade secret.

<b>Section 4. First-Aid Measures</b>
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Eye Contact:	Immediately flush with plenty of water. Remove any contact lenses, continue flushing for several minutes and call physician immediately.
Skin Contact:	Wash off immediately with plenty of water for several minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical advice/attention.

Inhalation:	Move to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to a person who is unconscious. Call a physician or Poison Control Center.
Symptoms:	Skin contact can lead to drying, itching, stinging and irritation. Exposed individuals may experience eye tearing, redness and discomfort.
Note to Physician:	Treat symptomatically

## Section 5. Fire Fighting Measures

Suitable Extinguishing Media	In case of fire, use Water, Carbon Dioxide (CO <sub>2</sub> ), Foam, Dry Chemical
Unsuitable Extinguishing Media	N.D.
Special Hazards Arising from the Chemical:	N.D.
Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	<p>Personal Precautions: Use personal protective equipment as required.</p> <p>For Emergency Responders: Restrict access to spill area. Ventilate the area.</p> <p>Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.</p>
Methods and Materials for Containment and Cleaning up:	<p>Methods for Containment: Prevent further leakage or spillage if safe to do so.</p> <p>Methods for Cleaning up: Flush small spills with water. Dike to collect large liquid spills.</p>

## Section 7. Handling and Storage

Precautions for Safe Handling:	<p>Advice on Safe Handling: Obtain special instructions before use. Read and understand all safety precautions prior to use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Keep out of the reach of children and pets.</p>
Conditions for Safe Storage, Including any Incompatibilities:	<p>Storage Conditions: Store in a closed container in a dry, cool and well-ventilated place away from incompatible materials. Do not store above 86°F (30°C).</p> <p>Incompatible Materials: Avoid contact with strong acids, oxidizers and alkalis.</p>

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Subtilisin	Ceiling:  0.00006 mg/m3	STEL: 0.00006 mg/m3 60 min.	NIOSH IDLH: 0.00006 mg/m3 60 min.
Personal Protective Equipment	Goggles, Gloves, Face Shield			
Exposure Guidelines:	See above occupational exposure limits.			
Appropriate Engineering Controls:	Ensure adequate ventilation. Eyewash stations.			
Individual protection measures, such as personal protective equipment:	<p>Eye/Face Protection: Wear goggles, chemical safety glasses or a face protection shield.</p> <p>Skin and Body Protection Chemical resistant, non-latex and impermeable gloves. Wear appropriate clothing to prevent prolonged skin contact.</p> <p>Respiratory Protection: Under normal conditions a respirator is not normally required. A mask or respirator may be used if vapor concentration is high.</p> <p>General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practices.</p>			

## Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Blue Clear Liquid
Odor	Fresh
Odor Threshold	N.D.
Solubility	Completely soluble
Partition coefficient Water/n-octanol	N.D.
VOC%	N/A
Viscosity	N.D.
Specific Gravity	1.07 g/cc (60°F/15.5°C)
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not flammable
FP Method	N.D.
pH	7.4-8.3 (77°F/25°C)
Melting Point	<23°F/<-5°C
Boiling Point	N.D.

Boiling Range	212°F/100°C
LEL	N/A
UEL	N/A
Evaporation Rate	<1
Flammability	N/A-Liquid
Decomposition Temperature	N.D.
Auto-ignition Temperature	N.D.
Vapor Pressure	N.D.
Vapor Density	>1

Explosive Properties: Not explosive.

## Section 10. Stability and Reactivity

Reactivity: Not reactive under normal conditions.  
 Chemical Stability: Stable under recommended storage conditions.  
 Possibility of Hazardous Reactions: None under normal processing.  
 Reactivity: Hazardous Polymerization will not occur.  
 Conditions to avoid: None under normal processing.  
 Incompatibility (Materials to Avoid) Avoid contact with strong acids, oxidizers and alkalis.  
 Hazardous Decomposition Products: None known.

## Section 11. Toxicological Information

Route(s) of Exposure: Eye Contact. Skin Contact. Inhalation. Ingestion.

Information on likely routes of exposure: Eye contact:  
 Causes eye irritation.  
 Skin contact:  
 Causes mild skin irritation.  
 Inhalation:  
 Avoid breathing vapors or mists. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Component Information: Ingestion:  
 Do not taste or swallow.  
 Chemical Name:  
 Subtilisin (Protease) CAS-No. 9014-01-1  
 Oral LD50: 1800 mg/kg (Rat)  
 Dermal LD50: N.A.  
 Inhalation LC50: N.A.

Delayed-immediate effects, Carcinogenicity:  
also chronic effects from short & long term exposure:  
The product as a whole has not been tested.  
Numerical Measures of Toxicity: N.D.

## Section 12. Ecological Information

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

Chemical Name:  
Subtilisin (Protease) CAS-No. 9014-01-1  
Algae/aquatic plants: N.D.  
Fish: N.D.  
Toxicity to microorganisms: N.D.  
Crustacea: N.D.

Persistence and degradability: N.D.  
Bioaccumulation: N.D.  
Mobility: N.D.  
Other adverse effects: N.D.

## Section 13. Disposal

Waste Treatment Methods: Disposal of Wastes:  
Dispose according to all local, state and federal regulations.

Contaminated Packaging:  
Dispose according to all local, state and federal regulations.

Chemical Name:  
Borax Decahydrate CAS-No. 1303-96-4  
California Hazardous Waste Status: Toxic

## Section 14. Transport Information

UN Number N/A  
UN Proper Shipping Name Not Regulated  
DOT Classification Not Regulated  
Packing Group Not Regulated  
Note: See current shipping paper for most up to date shipping information, including exemptions and special circumstances.  
IMDG: Not regulated  
IATA: Not regulated

## Section 15. Regulatory Information

SARA 311/312:	Refer to Section 2 of the SDS.
SARA 302:	N.A.
SARA 304:	N.A.
SARA 313:	N.A.
TSCA:	All components are listed or exempt.
CERCLA Hazardous Substance List:	N.A.
Clean Air Act (CAA) Section 112, 112 (r):	N.A.
State Regulations:	N.A.

## Section 16. Other Information

Revision Date 11/21/2017

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 0

National Fire Protection  
Association (U.S.A):  
Instability Hazard 0

National Fire Protection  
Association (U.S.A):  
Special Hazard N.D.

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