



# Safety Data Sheet

## Single-Enzymatic Surgical Instrument Detergent & Presoak

### Section 1. Identification

Product Identifier	Single-Enzymatic Surgical Instrument Detergent & Presoak		
Synonyms	MDS88000B91; MDS88B9105; MDS88B9115; MSD_SDS0154		
Manufacturer Stock Numbers	MDS88000B91; MDS88B9105; MDS88B9115		
Recommended use	Cleaning agent.		
Uses advised against	Use only as directed.		
Manufacturer Contact Address	Medline 3 Lakes Drive Northfield, IL, 60093 USA		
	Phone	Emergency Phone	Fax
	(800) 633-5463	(800) 424-9300 CHEMTREC	(847) 643-4436
	Website		
	<a href="http://www.Medline.com">www.Medline.com</a>		

### Section 2. Hazards Identification

Classification	SERIOUS EYE DAMAGE /EYE IRRITATION - Category 2B
Signal Word	Warning
Pictogram	
Hazard Statements	Causes eye irritation
Precautionary Statements	
Response	Get medical advice/attention if you feel unwell. If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact

Prevention	lenses, if present and easy to do. Continue rinsing. Do not handle until all safety precautions have been read and understood. Wash affected area thoroughly after handling. Wear protective gloves, eye protection.
Storage	Store at temperatures not exceeding 30°C/86°F.
Disposal	Dispose according to all local, state and federal regulations.
Ingredients of unknown toxicity	0%
Hazards not Otherwise Classified	None known.

### Section 3. Ingredients

CAS	Ingredient Name	Weight %
9014-01-1	Subtilisin	Trade Secret %

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First-Aid Measures

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> ), Dry Chemical or Foam for extinction.
Unsuitable Extinguishing Media	N.D.
Specific Hazards Arising from the Chemical:	N.D.
Protective equipment & 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:

Personal Precautions:  
Use personal protective equipment as required.

For Emergency Responders:  
Restrict access to spill area. Ventilate the area.

Environmental Precautions:  
Prevent entry into waterways, sewers, basements or confined areas.

Methods and Materials for  
Containment and Cleaning  
up:

Methods for Containment:  
Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up:  
Flush small spills with water. Dike to collect large liquid spills.

## Section 7. Handling and Storage

Precautions for Safe  
Handling:

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.

Conditions for Safe  
Storage, Including any  
Incompatibilities:

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).

Incompatible Materials:  
Avoid contact with strong acids, oxidizers and alkalis.

## Section 8. Exposure Controls/Personal Protection

Occupational Exposure  
Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Subtilisin	Ceiling: 0.00006 mg/ m <sup>3</sup>	STEL:0.00006 mg/ m <sup>3</sup> 60 min.	NIOSH IDLH: 0.00006 mg/m <sup>3</sup> 60 min.

Personal Protective  
Equipment

Goggles, Gloves, Face Shield

Appropriate Engineering  
Controls:

Ensure adequate ventilation. Eyewash stations.

Individual protection  
measures, such as  
personal protective  
equipment:

Eye/Face Protection:  
Wear goggles, chemical safety glasses or a face protection shield.

Skin and Body Protection:  
Chemical resistant, non-latex and impermeable gloves. Wear appropriate clothing to prevent prolonged skin contact.

Respiratory Protection:

Under normal conditions a respirator is not normally required. A mask or respirator may be used if vapor concentration is high.

General Hygiene Considerations:

Handle with good industrial hygiene and safety practices.

## Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Green/ 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
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not Flammable
FP Method	N.A.
pH	7.4 - 8.3
Melting Point	< 23°F / < -5°C
Boiling Point	212°F/ 100°C
Boiling Range	N.D.
LEL	N/A
UEL	N/A
Evaporation Rate	< 1
Flammability	N/A-Liquid
Decomposition Temperature	N.D.
Auto-ignition Temperature	Not Flammable
Vapor Pressure	N.D.
Vapor Density	> 1

## 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.

Hazardous polymerization: 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: Eyes; Skin; 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.  
Ingestion: Do not taste or swallow.  
Subtilisin (Protease) CAS-No. 9014-01-1  
Oral LD50: 1800 mg/kg (Rat)  
Dermal LD50: N.A.  
Inhalation LC50: N.A.  
Delayed-immediate effects, also chronic effects from short & long term exposure, Carcinogenicity: 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.  
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

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

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

## Section 14. Transport Information

UN Number N/A  
UN Proper Shipping Name Not Regulated  
DOT Classification Not Regulated  
Packing Group 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 2/7/2023

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

National Fire Protection Association (U.S.A): Health Hazard 1

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

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

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