



SAFETY DATA SHEET

1. Identification of the Substance / Preparation and Company

ZolvStat™

Multi-Enzymatic Detergent

Product No. 1225

SDS No. 1225US

Prepared by: M. Ebers

asksteris_msds@steris.com

Date Created: August 30, 2004

Date Revised: September 9, 2013

STERIS Corporation, P. O. Box 147, St. Louis, MO 63166, US
Emergency Telephone No. 1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)
Telephone Number for Information: 1-800-548-4873 (Customer Service-Healthcare Products)

2. Hazards Identification: May cause eye and skin irritation.

3. Composition/Information on Ingredients

Hazardous Component(s)	% By Wt.	CAS No.	EU No.	Symbol	R Phrases	Oral LD50	LC50
Protease	ND	9014-01-1	NA	NA	NA	ND	ND
Alpha-Amylase	ND	9000-62-1	NA	NA	NA	ND	ND
Lipase	ND	9001-62-1	NA	NA	NA	ND	ND
Cellulase	ND	9012-54-8	NA	NA	NA	ND	ND

4. First Aid Measures

Eye Contact: Flush eyes immediately with water for at least 15 minutes. Get medical attention.

Skin Contact: Flush skin immediately with water for at least 15 minutes. Get medical attention if irritation persists.

Inhalation: Remove patient to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person. If conscious, drink a large quantity of milk or water.

5. Fire-Fighting Measures

Conditions of Flammability/Flash Point/Auto-ignition Temperature: NA

Upper Flammable Limit: ND **Lower Flammable Limit:** ND

Special Hazards: None known. **Explosibility Data:** ND

Extinguishing Media: Suitable for surrounding fire.

Special Fire Fighting Procedures: None known.

Hazardous Combustion Products: Oxides of carbon and nitrogen

6. Accidental Release Measures: Spills may be picked up with a mop and followed by a water rinse. Small spills may be flushed to a sanitary sewer with copious amounts of water if in accordance with National and local regulations.

7. Handling and Storage

7.1 Handling

Wash hands thoroughly after use.

7.2 Storage

Avoid exposure to high temperature or humidity. Keep container closed when not in use.

8. Exposure Control/Personal Protection

8.1 Occupational Exposure Limits

Protease: ACGIH TLV = 0.06 ppb (protease as dust)

8.2 Personal Protection

Respirator Protection: Not required for normal use. If product is applied by means of spraying and ventilation is not sufficient to maintain levels below exposure limits, a NIOSH N95 is the minimum required respirator type.

Eye Protection: Safety glasses.

Protective Gloves: Rubber.

Other Protective Clothing and Equipment: Clothes sufficient to avoid contact.

Engineering Controls/Ventilation: Adequate to maintain levels below exposure limits.

9. Physical and Chemical Properties

Solubility in Water: Complete **Specific Gravity:** Approximately 1.1

Physical State/Appearance/Odor: Clear blue liquid/fresh fragrance. **pH:** Approximately 8.5 – 9.0

Odor Threshold, Vapor Pressure, Vapor Density, Evaporation Rate, Boiling Point and Freezing Point: ND

Coefficient of Water/Oil Distribution: ND

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatible Materials: Strong oxidizers.

Conditions to Avoid/Conditions of Reactivity: Heat and light.

Hazardous Decomposition or Byproducts: CO_x and NO_x in fire situations.

11. Toxicological Information

11.1 Acute (Primary Routes of Exposure)

Eyes (Irritancy): Upon contact, mildly irritating to eyes.

Skin (Irritancy or Sensitization): Prolonged or repeated contact may irritate skin.

Inhalation: Protease in dust form may result in sensitization as respiratory irritation, coughing and/or difficulty in breathing. If product is applied by means of spraying, the potential for similar sensitization cannot be ruled out.

Ingestion: May cause upset to gastrointestinal tract.

11.2 Long Term Exposure

Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction.

Carcinogenicity: IARC, NTP and OSHA do not list this product or its ingredients as carcinogens.

Reproductive Toxicity/Teratogenicity/Mutagenicity/Toxicologically Synergistic Products: ND

12. Ecological Information: ND

13. Disposal Considerations: Dispose in accordance with local, state, and Federal regulations. Empty containers should be rinsed and discarded in a waste container or offered for recycling if possible. Do not use empty containers for other purposes.

14. Transport Information

Ground: Non-hazardous

Sea: IMDG Class: Non-hazardous

Air: ICAO/IATA Class: Non-hazardous

15. Regulatory Information

WHMIS Classification: D2 – Materials Causing Other Toxic Effects (Irritant)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulation.

16. Other Information: The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions or recommendations are not followed.

NA - Not Applicable

ND - No Data