



SAFETY DATA SHEET

1. Identification of the Substance and Company

ProKlenz™ One
High Performance Alkaline Detergent
Product No. 1421
MSDS No. AU1421

Prepared by: M. Ebers
asksteris_msds@steris.com

Date Created: December 04, 2006 **Date Revised: July 28, 2010**

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: 1-800-444-9009 (Customer Service-Scientific Products)

STERIS Limited, STERIS House, Jays Close, Viables, Basingstoke, Hampshire, RG22 4AX, UK
Emergency Phone No: +44 (0) 1895 622639
Product/Technical Information Phone No: +44 (0) 1256 840400

Device Technologies Australia Pty Ltd, Unit 8, 25 Frenchs Forest Road, Frenchs Forest NSW 2086, Australia,
Telephone: 1800 804 006, Fax: 612 9975 5711. Emergency 24 Hour Telephone: 1800 804 006.

Device Technologies New Zealand Limited, 47 Arrenway Drive, Albany, Auckland, 0632, New Zealand
Tel: 0508 338 423, Fax: 649 9913 2009. Emergency 24 Hour Telephone: 0508 338 423.

2. Hazards Identification: Corrosive to eyes and skin.

NOHSC: Hazardous Substance. Dangerous Goods

Risk Phrases: R35: Causes severe burns **Safety Phrases:** S1/2: Keep locked up and out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/S39:

Wear suitable gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

3. Composition/Information on Ingredients

Hazardous Component(s)	% By Wt.	CAS No.	EU No.	Symbol	R Phrases	Oral LD ₅₀	LC ₅₀
Sodium hydroxide	10 - 30	1310-73-2	215-185-5	C	R35	LDLo (rabbit) 500mg/kg	240 ug/l (Bluegill) 96 hr TLM
Other non-hazardous components	NA	NA	To 100	NA	NA	NA	NA

4. First Aid Measures

Eye Contact: Remove any contact lenses and flush eyes immediately with water for at least 15 minutes. Get medical attention.

Skin Contact: Remove any contaminated clothing and flush skin immediately with water for at least 15 minutes. Get medical attention.

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 Product is not flammable or

combustible **Upper Flammable Limit:** NA

Special Hazards: None known.

Extinguishing Media: Use media appropriate for the primary source of fire.

Special Fire Fighting Procedures: Use caution when fighting any fire involving chemicals. A self-contained breathing apparatus is essential.

Lower Flammable Limit: NA

Explosibility Data: ND

Hazard Combustion Products: CO_x, SO_x

6. Accidental Release Measures: Ensure suitable personal protection during removal of spillages. Spills should be contained and may be cautiously neutralized with a weak acid solution, or absorbed on appropriate material and placed in a container for disposal. Wash contaminated areas with large quantities of water to a sanitary sewer. Washings should be prevented from entering surface water/storm drains. Local regulations should be observed.

7. Handling and Storage

7.1 Handling: For industrial use only. Read label before use. Avoid all contact with skin, eyes and mouth. Wear appropriate protective clothing [See Section 8.2]. Wash hands and exposed skin thoroughly after use. Launder contaminated clothing before reuse.

7.2 Storage: Keep in original container. Keep out of reach of children.

8. Exposure Control/Personal Protection

8.1 Occupational Exposure Limits

Sodium hydroxide: OSHA PEL and ACGIH TLV = 2 mg/m³ (ceiling), UK HSE E40 STEL = 2mg/m³

8.2 Personal Protection

Respirator Protection: Where engineering controls are impractical, use NIOSH-approved respirator appropriate for conditions.

Eye Protection: Chemical splash goggles and face shield.

Protective Gloves: Rubber.

Other Protective Clothing and Equipment: Rubber apron and rubber boots.

Engineering Controls/Ventilation: Local exhaust ventilation recommended to maintain air concentrations below established limits.

9. Physical and Chemical Properties

Solubility in Water: Complete **Specific Gravity:** Approximately 1.18 g/ml

Physical State/Appearance/Odor: Yellow to amber liquid/soap-like odor.

pH (neat): Approximately 13.4 – 13.7

pH (1% w/w solution): Approximately 12.5

Odor Threshold, Vapor Pressure, Vapor Density, Evaporation Rate, boiling Point and Freezing Point: Not Available **Coefficient of Water/Oil Distribution:** Not Applicable

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatible Materials: Soft metals such as aluminum, acids, strong oxidizers.

Conditions to Avoid: None known.

Hazardous Decomposition or Byproducts: CO_x, SO_x

11. Toxicological Information

11.1 Acute (Primary Routes of Exposure)

Eyes (Irritancy): Corrosive to eyes.

Skin (Irritancy or Sensitization): Contact with skin can result in severe irritation or burns.

Inhalation: Inhalation of solution mists can result in severe respiratory irritation.

Ingestion: Can result in severe burns of the mouth, throat, esophagus and stomach with severe damage of contacted tissue. Can result in internal bleeding and death.

11.2 Long Term Exposure: None known.

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: Ecotoxicity/Persistence and degradability/Mobility: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

13. Disposal Considerations: Do not contaminate ponds, waterways, or ditches with chemical or used containers. Empty containers should be rinsed thoroughly and discarded in an appropriate waste container. [Containers may be offered for reconditioning/recycling.] Empty containers should not be used for other purposes. Unused material may be a hazardous waste due to its high pH and subsequent corrosivity. Disposal of unwanted product should be done in accordance with local, state or national legislation. Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with state, local and federal regulations.

ProKlenz™ One
High Performance Alkaline Detergent
Product No. 1421

MSDS No. AU1421

NFPA 704 HAZARD RATING:

HEALTH: 3
FIRE: 0
REACTIVITY: 0

Prepared by: M. Ebers
asksteris_msds@steris.com

Date Created: December 04, 2006 Date Revised: July 28, 2010

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: 1-800-444-9009 (Customer Service-Scientific Products)

STERIS Limited, STERIS House, Jays Close, Viables, Basingstoke, Hampshire, RG22 4AX, UK
Emergency Phone No: +44 (0) 1895 622639
Product/Technical Information Phone No: +44 (0) 1256 840400

Device Technologies Australia Pty Ltd, Unit 8, 25 Frenchs Forest Road, Frenchs Forest NSW 2086, Australia,
Telephone: 1800 804 006, Fax: 612 9975 5711. Emergency 24 Hour Telephone: 1800 804 006.

Device Technologies New Zealand Limited, 47 Arrenway Drive, Albany, Auckland, 0632, New Zealand
Tel: 0508 338 423, Fax: 649 9913 2009. Emergency 24 Hour Telephone: 0508 338 423.

14. Transport Information

Ground: Sodium Hydroxide Solution, 8, Corrosive, UN 1824, PG II

Sea: IMDG Class: Sodium Hydroxide Solution, 8, Corrosive, UN 1824, PG II

Air: ICAO/IATA Class: Sodium Hydroxide Solution, 8, Corrosive, UN 1824, PG II

Australia : ADG/HazChem Code : 2R **Special Provision :** SP184

15. Regulatory Information

All of the components of the product are on the TSCA inventory or are exempt from TSCA inventory requirements.

USA State Regulations: May contain trace levels of formaldehyde

WHMIS Classification: E – Corrosive Material

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

Australia/New Zealand Classification: HSNO hazard classification: 6.1E, 8.1A, 8.2B, 8.3A, 9.1D

EEC Classification: Corrosive, Harmful **Hazard Symbol:** C, Xn **Risk Phrases:** R35: Causes severe burns

Safety Phrases: S1/2: Keep locked up and out of the reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/S39: Wear suitable gloves and eye/face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

This preparation is classified as dangerous as defined by the UK Chemicals (Hazard Information and Packaging for Supply) Regulations. These regulations implement a number of EC Directives including the Dangerous Substances Directive (67/548/EEC and amendments), the Dangerous Preparations Directive (1999/45/EEC and amendments) and the Safety Data Sheets Directive (91/155/EEC and amendment).

Australia: AICS listed. **Classification:** 6.1E (acute toxicant), 8.1A (metal corrosive), 8.2B (skin corrosive), 8.3A (eye corrosive), 9.1D (aquatic ecotoxicant).

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 instruction or recommendations are not followed.

NA - Not Applicable

ND - No Data