



## SAFETY DATA SHEET

### 1. Identification of the Substance and Company

#### CIP 100

#### Product No. 1D10

MSDS No. 1D10

Prepared by: M. Ebers

Date Created: December 1, 2001

Date Revised: NA

Date Revised: January 7, 2004

#### NFPA 704 HAZARD RATING:

HEALTH: 3

FIRE: 0

REACTIVITY: 1

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, Viabes, Basingstoke, Hampshire, RG22 4AX, UK  
Emergency Phone No: +44 (0) 1895 622639  
Product/Technical Information Phone No: +44 (0) 1256 840400

### 2. Composition/Information on Ingredients

Hazardous Component(s)	EEC No.	CAS No.	% By Wt.	Symbol	R Phrases
Potassium Hydroxide	215-181-3	1310-58-3	< 25.0	C	R35
Tetrasodium EDTA	Not listed	64-02-8	< 5.0	[Xi]	[R36/38]

**3. Hazards Identification:** Corrosive to eyes, skin, mouth throat and stomach. Spray mists are extremely irritating to mucous membranes and upper respiratory tract.

#### 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 plenty of 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 large quantity of milk or water.

#### 5. Fire-Fighting Measures

**Flash Point:** Not flammable.

**Special Hazards:** Can react with soft metals to evolve flammable hydrogen gas.

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

**Special Fire Fighting Procedures:** None known.

**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

Potassium hydroxide: ACGIH TLV = 2 mg/m<sup>3</sup> (ceiling); UK HSE EH40 STEL = 2 mg/m<sup>3</sup>

##### 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.

**Ventilation:** Local exhaust ventilation recommended to maintain air concentrations below established limits.

#### 9. Physical and Chemical Properties

**Solubility in Water:** Complete

**Specific Gravity:** Approximately 1.27

**Appearance/Odor:** Clear, light straw liquid. Slight chemical odor.

**pH:** (1% solution) Approximately 12.3 – 12.8

**pH:** (concentrate) > 13

#### 10. Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Incompatible Materials:** Acids, soft metals, oxidizers, organic halogen compounds.

**Conditions to Avoid:** None known.

**Hazardous Decomposition or Byproducts:** CO, CO<sub>2</sub>

#### 11. Toxicological Information

##### 11.1 Acute (Primary Routes of Exposure)

**Eyes:** Corrosive. Causes burns. Mists of use dilution cause irritation.

**Skin:** May cause severe irritation or burns.

**Inhalation:** Mists extremely irritating to mucous membranes, upper respiratory tract.

**Ingestion:** Corrosive to mouth, throat and stomach. Oral LD<sub>50</sub> (rat) = 860 mg/kg.

##### 11.2 Long Term Exposure

None known.

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

#### 12. Ecological Information

**Aquatic Toxicity:** LC50 (10% Solution)(Pimephales promelas) > 750 mg/L

#### 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. For additional guidance, contact the State Water Board or the Regional Office of the EPA.

#### 14. Transport Information

**Ground:** Potassium Hydroxide Solution, 8, Corrosive, UN 1814, PG II

**Road/Rail: ADR/RID Class:** UN 1814, Potassium Hydroxide Solution, 8, 42(b) ADR

**Sea: IMDG Class:** Potassium Hydroxide Solution, 8, Corrosive, UN 1814, PG II

**Air: ICAO/IATA Class:** Potassium Hydroxide Solution, 8, Corrosive, UN 1814, PG II

#### 15. Regulatory Information

**EEC Classification:** CORROSIVE, HARMFUL

**Hazard Symbol:** C, X<sub>n</sub>

**Risk Phrases:** R35: Causes severe burns, R22: Harmful if swallowed

**Safety Phrases:** S2: Keep out of reach of children. S24/25: Avoid contact with eyes and skin. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S36/37/39: Wear suitable protective clothing, gloves and full eye/face protection, S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**WHMIS Classification:** E – Corrosive Material

#### 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