



SAFETY DATA SHEET

1. Identification of the Substance and Company

Cage Klenz 100

Product No. 1K10

MSDS No. 1K10

Prepared by: M. Ebers

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NFPA 704 HAZARD RATING:

HEALTH: 2
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, Viables, 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	<5	C	35
Tetrasodium EDTA	200-573-9	64-02-8	<11	[Xi]	[36-38]
Potassium silicate	215-199-1	1312-76-1	<7	[Xi]	[36-38]

3. Hazards Identification

Eye and skin irritant. Ingestion may cause irritation to mouth, throat, and gastrointestinal tract.

4. First Aid Measures

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

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

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

Flash Point: ND **Method:** NA

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

Extinguishing Media: Suitable for surrounding fire: water, CO₂, foam, dry chemical.

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

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, out of reach of children.

8. Exposure Control/Personal Protection

8.1 Occupational Exposure Limits

Potassium hydroxide: ACGIH TLV = 2 mg/m³ (ceiling); UK HSE EH40 STEL = 2 mg/m³

8.2 Personal Protection

Respirator Protection: An appropriate respirator may be required if exposure limits are exceeded.

Eye Protection: Chemical splash goggles.

Protective Gloves: Rubber.

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

Ventilation: Adequate to maintain air concentrations below established limits (see 8.1)

9. Physical and Chemical Properties

Solubility in Water: Complete **Specific Gravity:** Approximately 1.15 g/ml

Appearance/Odor: Clear, colorless to light yellow liquid. Mild odor.

pH (1% w/w Solution): 11.0-12.0

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatible Materials: Strong acids, soft metals, organic halogens and strong oxidizing agents.

Conditions to Avoid: None known.

Hazardous Decomposition or Byproducts: CO_x and NO_x.

11. Toxicological Information

11.1 Acute (Primary Routes of Exposure)

Eyes: Causes irritation.

Skin: Causes moderate irritation.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Will irritate the mouth and throat. Product will cause upset gastrointestinal tract.

11.2 Long Term Exposure:

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

12. Ecological Information: The surfactant contained in this preparation complies 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. For additional guidance, contact the State Water Board or the Regional Office of the EPA.

14. Transport Information

GROUND/ AIR/ SEA: Non-hazardous

15. Regulatory Information

EU Regulations: 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 (88/379/EEC and amendments) and the Safety Data Sheets Directive (91/155/EEC and amendment).

EEC Classification: IRRITANT

Hazard Symbol: Xi

Risk Phrases: R 22: Harmful if swallowed. R38: Irritating to skin. R41: Risk of serious eye damage.

Safety Phrases: S2: Keep out of reach of children. S24/25 Avoid contact with skin and eyes. 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).

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

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