



SAFETY DATA SHEET

1. Identification of the Substance and Company

LabKlenz™ 100

Product No. 1L10

MSDS No. 1L10

Use: Hard Surface Cleaner

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Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)

2. Hazards Identification

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

3. Composition/Information on Ingredients

Hazardous Component(s)	% By Wt.	CAS No.	Oral LD ₅₀	LC ₅₀
Potassium hydroxide	1 - 5	1310-58-3	365 mg/kg (rat)	ND
Tetrasodium EDTA	7 - 13	64-02-8	> 2,000 mg/kg (rat)	ND
Potassium silicate	5 - 10	1312-76-1	1,50 3,200 mg/kg (rat)	ND

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

Conditions of Flammability/Flash Point/Auto-ignition Temperature: Not Flammable

Upper Flammable Limit: NA **Lower Flammable Limit:** NA

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

Explosibility Data: ND

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.

Hazard Combustion Products: CO_x and NO_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, out of reach of children.

8. Exposure Control/Personal Protection

8.1 Occupational Exposure Limits

Potassium hydroxide: ACGIH TLV = 2 mg/m³ (ceiling)

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.

Engineering Controls/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

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

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

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

Conditions to Avoid/Conditions of Reactivity: None known.

Hazardous Decomposition or Byproducts: CO_x and NO_x.

11. Toxicological Information

11.1 Acute (Primary Routes of Exposure)

Eyes (Irritancy): Causes irritation.

Skin (Irritancy or Sensitization): 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: 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:

None available

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

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 MSDS 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 instruction or recommendations are not followed.

NA - Not Applicable

ND - No Data