



SAFETY DATA SHEET

1. Identification of the Substance and Company

LabKlenz™ 200

Product No. 1L20

MSDS No. 1L20

Use: Hard Surface Cleaner

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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)

2. Hazards Identification: Harmful if swallowed. Causes skin and eye irritation. Corrosive to aluminum.

3. Composition/Information on Ingredients

Hazardous Component(s)	% By Wt.	CAS No.	Oral LD ₅₀	LC ₅₀
Phosphoric Acid	30 - 60	7664-38-2	1,530 mg/kg (rat)	ND
Citric Acid	3 - 7	77-92-9	11,700 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.

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 metals to produce flammable hydrogen gas.

Explosibility Data: ND

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

Special Fire Fighting Procedures: Use self-contained breathing apparatus.

Hazard Combustion Products: CO_x and PO_x

6. Accidental Release Measures

Ensure suitable personal protection during removal of spillages. Spills should be contained and may be cautiously neutralized with sodium bicarbonate, or absorbed on appropriate material and placed in a container for disposal. Flush spill site 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. Avoid contact with eyes, skin, mouth. Wear appropriate protection. Wash hands and exposed skin after use

7.2 Storage: Store in a cool, well ventilated area.

8. Exposure Control/Personal Protection

8.1 Occupational Exposure Limits

Phosphoric acid: ACGIH TLV and OSHA PEL = 1 mg/m³; ACGIH and OSHA STEL = 3 mg/m³

8.2 Personal Protection

Respirator Protection: If engineering controls are inadequate to maintain levels below established limits, an appropriate NIOSH approved respirator is required.

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 levels below established limits.

9. Physical and Chemical Properties

Solubility in Water: Complete **Specific Gravity:** Approximately 1.34 g/ml

Physical State/Appearance/Odor: Clear to slightly hazy, colorless liquid. Mild chemical odor.

pH (1% solution): approximately 2.0

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 base and oxidizing agents, aluminum

Conditions to Avoid/Conditions of Reactivity: None known.

Hazardous Decomposition or Byproducts: CO, CO₂, phosphorus oxides.

11. Toxicological Information

11.1 Acute (Primary Routes of Exposure)

Eyes (Irritancy): Causes irritation.

Skin (Irritancy or Sensitization): Causes severe irritation. Symptoms may be delayed.

Inhalation: Mists irritating to upper respiratory tract.

Ingestion: Irritating to mouth, throat and gastrointestinal tract. Oral LD₅₀ (rats) >1,000 mg/kg.

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: ND

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 low pH and subsequent corrosivity. Disposal of wanted 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: Phosphoric Acid Liquid Solution, 8, Corrosive, UN 1805, PG III

Sea: IMDG Class: Phosphoric Acid Liquid Solution, 8, Corrosive, UN 1805, PG III

Air: ICAO/IATA Class: Phosphoric Acid Liquid Solution, 8, Corrosive, UN 1805, PG III; (4 x 1 gal. package not approved for air shipment)

15. Regulatory Information

WHMIS Classification: E – Corrosive Material (Corrosive to aluminum)

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