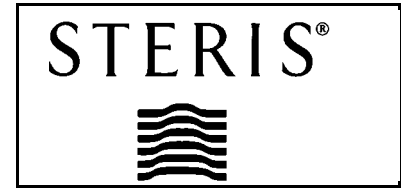


Material Safety Data Sheet
 May be used to comply with OSHA's
 Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.



| | | |
|---------------------|----------------------------|-------------------|
| Product Name | Product Description | Product ID |
| CIP 200 | Acid Cleaner | 1D20 |

SECTION I

| | | | |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------|---|
| Manufacturer's Name STERIS Corporation | Emergency Telephone Number 1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC) | Health | 2 |
| Address P.O. Box 147 St. Louis, Missouri 63166 | Telephone Number for Information 1-800-444-9009 (Customer Service - Scientific Products) | Fire | 1 |
| | Date Prepared: June 6, 2001 | Reactivity | 0 |
| | Prepared by: M. Ebers | Least Slight Moderate High Extreme 0 1 2 3 4 | |

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| | | | | |
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| | | | | |
|--|--|--|--|--|

| Hazardous Components (Specific Chemical Identity; Common Name(s)) | % by Wt. | ACGIH TLV | OSHA PEL | Other Limits Recommended |
|-------------------------------------------------------------------|----------|-----------|----------|--------------------------|
| Phosphoric Acid (7664-38-2) | < 50 | 1mg/m3 | 1mg/m3 | STEL: 3mg/m3 |
| Citric Acid (77-92-9) | < 10 | N/A | N/A | |

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

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| | | | |
|----------------------------|-------------------------|--------------------------------------------------|--------------------|
| Solubility in Water | Complete | Specific Gravity (H₂O=1 @ 25C) | 1.34 |
| Freezing Point F | <10 | % Volatile by wt @ 105C/1 hr | 40 |
| pH @ 1% Solution | 1.8-2.2 | pH as Distributed | <1 |
| Appearance | Clear, colorless liquid | Odor | Mild chemical odor |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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|--|--|--|--|--|--|

| | | | | | |
|-------------------------------------------|-----------------------------------------------------------|-------------------------|-----|------------|------------|
| Flash Point (Method Used) | None to boiling | Flammable Limits | N/A | LEL | UEL |
| Extinguishing Media | Use media suitable for fighting surrounding fire. | | | | |
| Special Fire Fighting Procedures | Use self-contained breathing apparatus. | | | | |
| Unusual Fire and Explosion Hazards | Can react with metals to liberate flammable hydrogen gas. | | | | |

SECTION V - REACTIVITY DATA

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| | | | |
|----------------------------------------------|-----------------------|------------------------------------------|------------------------------------------|
| Stability | Unstable | | Conditions to Avoid None known |
| | Stable | X | |
| Incompatibility (Materials to Avoid) | | Strong bases, oxidizers. | |
| Hazardous Decomposition or Byproducts | | CO, CO ₂ , phosphorus oxides. | |
| Hazardous Polymerization | May Occur | | Conditions to Avoid None known |
| | Will Not Occur | X | |

SECTION VI - HEALTH HAZARD DATA**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects)****A. ACUTE (Primary Route of Exposure)**

EYES: Causes irritation.

SKIN: Causes severe irritation. Symptoms may be delayed. May cause burns on prolonged contact.

INHALATION: Mists irritating to upper respiratory tract.

INGESTION: Irritating to mouth, throat and gastrointestinal tract.

B. SUBCHRONIC, CHRONIC, OTHER: None known

SECTION VII - EMERGENCY AND FIRST AID PROCEDURES

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

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

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.

Inhalation: Remove patient to fresh air. If not breathing, give artificial respiration. Get medical attention.

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING & USE

| | |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spill Management: | Contain spill. Absorb on absorbent material and place in a D.O.T. approved container for disposal. Flush spill site with large quantities of water to a sanitary sewer. |
| Waste Disposal Methods: | Unused material is considered hazardous waste (EPA hazardous waste No. D002, characteristic of corrosivity) due to low pH. Product may be neutralized and flushed with large amounts of water to sanitary sewer. If the means are not available to neutralize this product, this waste must be disposed of in accordance with state, local and federal regulations. Contact your local EPA Regional Office for further guidance. |
| Precautions to be taken in handling and storage: | Avoid contact with eyes, skin and clothing. Avoid breathing mists. Wear eye protection and rubber gloves when handling. Wash thoroughly after handling. |
| Shipping information: | Phosphoric Acid Solution, 8, Corrosive, UN 1805, PG III |

SECTION IX - PROTECTION INFORMATION/CONTROL MEASURES

| | | | |
|---------------------|-----------------------|----------------|--------|
| Respiratory: | Not normally required | | |
| Eyes: | Safety glasses | Gloves: | Rubber |