# Foam 240® Acid-Based Process & Research Cleaner

## Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/28/2016

Version: 1.0

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## SECTION 1: Identification

### 1.1. Product Identifier

**Product Form:** Mixture  
**Product Name:** Foam 240® Acid-Based Process & Research Cleaner  
**Product Code:** 1D24

### 1.2. Intended Use of the Product

Use of the substance/mixture: Acid-Based Process & Research Cleaner. For professional use only.

### 1.3. Name, Address, and Telephone of the Responsible Party

**Company**  
STERIS Corporation  
Official Mailing Address:  
P.O. Box 147  
St. Louis, MO 63166 USA  
Street Address:  
7501 Page Avenue  
St. Louis, MO 63133 USA  
Telephone Number for Information: 1-800-444-7909 (Customer Service – Scientific Products)  
web: [www.steris.com](http://www.steris.com)  
email: asksteris_msdss@steris.com

### 1.4. Emergency Telephone Number

**Emergency Number:** 1-314-535-1395 or CHEMTREC: 1-800-424-9300

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## SECTION 2: Hazards Identification

### 2.1. Classification of the Substance or Mixture

**Classification (GHS-US)**
- Skin Corr. 1B: H314  
- Eye Dam. 1: H318

### 2.2. Label Elements

**GHS-US Labeling**
- **Hazard Pictograms (GHS-US):**
- **Signal Word (GHS-US):** Danger
- **Hazard Statements (GHS-US):**  
  - H290: May be corrosive to metals.  
  - H314: Causes severe skin burns and eye damage.  
  - H318: Causes serious eye damage.
- **Precautionary Statements (GHS-US):**  
  - P234: Keep only in original container.  
  - P260: Do not breathe mist, spray, vapors.  
  - P264: Wash hands thoroughly after handling.  
  - P380: Wear eye protection, face protection, protective clothing, protective gloves.  
  - P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
  - P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
  - P304+P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
  - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
  - P310: Immediately call a POISON CENTER or doctor.  
  - P501: Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

**Other Hazards:** May be corrosive to the respiratory tract.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

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## SECTION 3: Composition/information On Ingredients

### 3.1. Substance

Not applicable
3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>(CAS No) 7664-38-2</td>
<td>40 - 60</td>
<td>Met. Corr. 1, H290</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Nonylphenol ethoxylates</td>
<td>(CAS No) 9016-45-9</td>
<td>1 - 5</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2, H411</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2, H401</td>
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<tr>
<td>Sulfonic acids, C14-16-alkane hydroxy and C14-16-</td>
<td>(CAS No) 68439-57-6</td>
<td>0.5 - 1.5</td>
<td>Aquatic Chronic 3, H412</td>
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<tr>
<td>alkene, sodium salts</td>
<td></td>
<td>1 - 3</td>
<td></td>
</tr>
<tr>
<td>2-Propanoic acid, sodium salt, polymer with 2-methyl-</td>
<td>(CAS No) 37350-42-8</td>
<td>0.5 - 1.5</td>
<td></td>
</tr>
<tr>
<td>2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid</td>
<td></td>
<td>1 - 3</td>
<td></td>
</tr>
<tr>
<td>monosodium salt</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-phrases; see section 16

SECTION 4: First Aid Measures

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 30 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes severe skin burns and eye damage. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe skin burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive, however in contact with some metals may release explosive hydrogen gas.

Reactivity: In contact with metals, may emit flammable/explosive gas. Corrosive to metals.

5.3. Advice for Firefighters

Precautionary Measures: Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water sources. Do not breathe fumes from fires or vapors from decomposition. Do not get water inside containers. Do not apply water stream directly at source of leak.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.


SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. Do not allow prolonged contact with metals.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).


6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.


6.2. Environmental Precautions

Prevent entry to sewers and public waters.
6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid. Collect absorbed material and place into a sealed, labelled container for proper disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8: Exposure Controls and Personal Protection. For further information refer to section 13.

SECTION 7: Handling And Storage

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals.

Precautions for Safe Handling: Do not breathe mist, spray, vapors. Use appropriate personal protective equipment when handling and observe good personal hygiene measures after handling.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Storage areas should be periodically checked for corrosion and integrity.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers. Decomposes on contact with alcohols, aldehydes, cyanides, ketones, phenols, esters, sulfides or halogenated organics.

Packaging materials: Store in original container.

7.3. Specific End Use(s)

Acid-Based Process & Research Cleaner.

For professional use only.

SECTION 8: Exposure Controls/personal Protection

8.1. Control Parameters

| Substance | USA ACGIH ACGIH TWA (mg/m³) | USA ACGIH ACGIH STEL (mg/m³) | USA OSHA OSHA PEL (TWA) (mg/m³) | USA NIOSH NIOSH REL (TWA) (mg/m³) | USA NIOSH NIOSH REL (STEL) (mg/m³) | USA IDLH US IDLH (mg/m³) | Alberta OEL STEL (mg/m³) | Alberta OEL TWA (mg/m³) | British Columbia OEL STEL (mg/m³) | British Columbia OEL TWA (mg/m³) | Manitoba OEL STEL (mg/m³) | Manitoba OEL TWA (mg/m³) | New Brunswick OEL STEL (mg/m³) | New Brunswick OEL TWA (mg/m³) | Newfoundland & Labrador OEL STEL (mg/m³) | Newfoundland & Labrador OEL TWA (mg/m³) | Nova Scotia OEL STEL (mg/m³) | Nova Scotia OEL TWA (mg/m³) | Nunavut OEL STEL (mg/m³) | Nunavut OEL TWA (mg/m³) | Northwest Territories OEL STEL (mg/m³) | Northwest Territories OEL TWA (mg/m³) | Ontario OEL STEL (mg/m³) | Ontario OEL TWA (mg/m³) | Prince Edward Island OEL STEL (mg/m³) | Prince Edward Island OEL TWA (mg/m³) | Québec VECI (mg/m³) | Québec VEMP (mg/m³) | Saskatchewan OEL STEL (mg/m³) | Saskatchewan OEL TWA (mg/m³) | Yukon OEL STEL (mg/m³) | Yukon OEL TWA (mg/m³) |
|-----------|-----------------------------|-----------------------------|-------------------------------|--------------------------------|-----------------------------------|---------------------------------|-------------------------|-------------------------|--------------------------------|--------------------------------|-------------------------|--------------------------------|-------------------------|--------------------------------|-------------------------|--------------------------------|-------------------------|-------------------------|-------------------------|--------------------------------|-------------------------|-------------------------|--------------------------------|-------------------------|-------------------------|--------------------------------|
| Phosphoric acid (7664-38-2) | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ | 1 mg/m³ | 3 mg/m³ | 1 mg/m³ |
| Nonylphenol ethoxylates (9016-45-9) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
Foam 240®
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8.2. Exposure Controls
Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment:
- Protective goggles
- Gloves
- Corrosion proof clothing
- If insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical safety goggles.
Skin and Body Protection: Wear suitable protective clothing.
Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.
Consumer Exposure Controls: Do not eat, drink or smoke during use.
Other Information: When using, do not eat, drink or smoke.

SECTION 9: Physical And Chemical Properties
9.1. Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
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<tr>
<td>Appearance</td>
<td>Clear, colorless liquid</td>
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<tr>
<td>Odor</td>
<td>Mild Chemical</td>
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<td>Odor Threshold</td>
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<td>pH</td>
<td>1.6 - 2.1</td>
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<td>No data available</td>
</tr>
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<td>Flash Point</td>
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<td>Auto-ignition Temperature</td>
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<td>Decomposition Temperature</td>
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<td>Flammability (solid, gas)</td>
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<td>Vapor Pressure</td>
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<td>Relative Vapor Density at 20 °C</td>
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<td>Specific Gravity</td>
<td>1.31 (water=1)</td>
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<tr>
<td>Solubility</td>
<td>Complete in water</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not expected to present an explosion hazard due to mechanical impact.</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Not expected to present an explosion hazard due to static discharge.</td>
</tr>
</tbody>
</table>

9.2. Other Information
No additional information available

SECTION 10: Stability And Reactivity
10.1 Reactivity:
Corrosive to metals. May react violently with alkalis and bases.
10.2 Chemical Stability:
Stable under normal conditions.

10.3 Possibility of Hazardous Reactions:
Not applicable.

10.4 Conditions to Avoid:
Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5 Incompatible Materials:

10.6 Hazardous Decomposition Products:
Carbon oxides (CO, CO₂). Thermal decomposition generates: Corrosive vapors.

SECTION 11: Toxicological Information

11.1 Information On Toxicological Effects
Acute Toxicity: Not classified
Phosphoric acid (7664-38-2)
LD₅₀ Oral Rat 1530 mg/kg
LD₅₀ Dermal Rabbit 2740 mg/kg
LC₅₀ Inhalation Rat > 850 mg/m³ (Exposure time: 1 h)

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)
LD₅₀ Oral Rat 2310 mg/kg
LD₅₀ Dermal Rabbit 6300 mg/kg

Nonylphenol ethoxylates (9016-45-9)
LD₅₀ Oral Rat 1310 mg/kg HSDB
LD₅₀ Dermal Rabbit 1780 ml/kg

Skin Corrosion/Irritation: Causes severe skin burns and eye damage. pH: 1.6 - 2.1
Serious Eye Damage/Irritation: Causes serious eye damage. pH: 1.6 - 2.1
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact: Causes severe skin burns.
Symptoms/Injuries After Eye Contact: Causes serious eye damage.
Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: None expected under normal conditions of use.

SECTION 12: Ecological Information

12.1 Toxicity
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)
LC₅₀ Fish 1 4.2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC₅₀ Daphnia 1 4.53 mg/l (Ceriodaphnia sp)
LC 50 Fish 2 12.2 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
Er₅₀ (algae) 5.2 mg/l (Water quality - Marine Algal Growth Inhibition Test with Skeletonema costatum and Phaeodactylum tricornutum)

12.2 Persistence and Degradability
Foam 240® Acid-Based Process & Research Cleaner
Persistence and Degradability Not established.

12.3 Bioaccumulative Potential
Foam 240® Acid-Based Process & Research Cleaner
Bioaccumulative Potential Not established.

12.4 Mobility in Soil
No additional information available

12.5 Other Adverse Effects
Other Information: Avoid release to the environment.
SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Sewage Disposal Recommendations: Do not flush into surface water or sewer system.
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: Transport Information

14.4 In Accordance with TDG

Proper Shipping Name : PHOSPHORIC ACID, LIQUID
Packing Group : III
Hazard Class : 8
Identification Number : UN1805
Label Codes : 8

In Accordance With ICAO/IATA/IMDG/DOT

14.1. UN Number

UN-No.(DOT) : 1805
DOT NA no. : UN1805

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Phosphoric acid solution
Department of Transportation (DOT) Hazard Classes : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard Labels (DOT) : 8 - Corrosive
Packing Group (DOT) : III - Minor Danger

14.3. Additional Information

Emergency Response Guide (ERG) Number : 154

Transport by Sea

DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
MFAG-No : 154

Air Transport

DOT Quantity Limitations Passenger Aircraft/Rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo Aircraft Only (49 CFR 175.75) : 60 L

SECTION 15: Regulatory Information

15.1 US Federal Regulations

Foam 240® Acid-Based Process & Research Cleaner

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

Phosphoric acid (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-Propenoic acid, sodium salt, polymer with 2-methyl-2-(1-oxo-2-propenyl)amino)-1-propanesulfonic acid monosodium salt (37350-42-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Nonylphenol ethoxylates (9016-45-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations

Phosphoric acid (7664-38-2)

RTK - U.S. - Massachusetts - Right To Know List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List

15.3 Canadian Regulations

Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)
Listed on the Canadian IDL (Ingredient Disclosure List)
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2-Propenoic acid, sodium salt, polymer with 2-methyl-2-[1-oxo-2-propenyl]amino]-1-propanesulfonic acid monosodium salt (37350-42-8)
Listed on the Canadian DSL (Domestic Substances List)

Nonylphenol ethoxylates (9016-45-9)
Listed on the Canadian DSL (Domestic Substances List)

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by HPR.

SECTION 16: Other Information, Including Date Of Preparation Or Last Revision
Revision Date: 03/28/2016
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:
- Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4
- Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2
- Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2
- Aquatic Chronic 3 Hazardous to the aquatic environment - Chronic Hazard Category 3
- Eye Dam. 1 Serious eye damage/eye irritation Category 1
- Eye Irrit. 2A Serious eye damage/eye irritation Category 2A
- Met. Corr. 1 Corrosive to metals Category 1
- Skin Corr. 1B Skin corrosion/irritation Category 1B
- Skin Irrit. 2 Skin corrosion/irritation Category 2
- H290 May be corrosive to metals
- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H315 Causes skin irritation
- H318 Causes serious eye damage
- H319 Causes serious eye irritation
- H401 Toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects
- H412 Harmful to aquatic life with long lasting effects

NFPA Health Hazard: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA Fire Hazard: 1 - Must be preheated before ignition can occur.
NFPA Reactivity: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

Party Responsible for the Preparation of This Document
STERIS Corporation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.