

### SECTION 1: Identification

#### 1.1. Product Identifier

Product Form: Mixture  
 Product Name: LpH<sup>®</sup> III se Phenolic Disinfectant  
 Product Code: 6470

#### 1.2. Intended Use of the Product

Use of the substance/mixture: Disinfectant/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: 1-800-444-9009 (Customer Service-Scientific Products)  
 web: [www.steris.com](http://www.steris.com)  
 email: [asksteris\\_msds@steris.com](mailto:asksteris_msds@steris.com)

#### 1.4. Emergency Telephone Number

Emergency Number : 1-314-535-1395 (STERIS) or CHEMTREC: 1-800-424-9300

### SECTION 2: Hazards Identification

#### 2.1. Classification of the Substance or Mixture

##### GHS-US classification

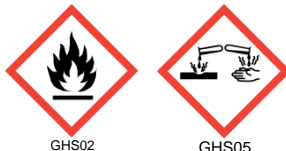
Met. Corr. 1	H290
Skin Corr. 1B	H314
Eye Dam. 1	H318
Flam. Liq. 3	H226

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements— This label is regulated by the EPA under FIFRA. Refer to Section 15.

##### 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.  
 H226 - Flammable liquid and vapor.

Precautionary Statements (GHS-US) :

P210 – Keep away from heat, sparks, open flame, hot surfaces. No smoking.  
 P260 - Do not breathe vapors, mist, or spray.  
 P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
 P280 - Wear protective gloves, protective clothing, and eye protection.  
 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/shower.  
 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.  
 P363 - Wash contaminated clothing before reuse.  
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Other Hazards: Exposure may aggravate pre-existing eye, skin, or respiratory conditions. May be corrosive to respiratory tract.

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

No data available

# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

### SECTION 3: Composition/Information On Ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
o-Benzyl-p-chlorophenol	(CAS No) 120-32-1	10-30	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318
Isopropyl alcohol	(CAS No) 67-63-0	10-15	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Phosphoric acid	(CAS No) 7664-38-2	10-30	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318
Sodium 1-octanesulfonate	(CAS No) 5324-84-5	5-10	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
2-Phenylphenol	(CAS No) 90-43-7	5-10	Comb. Dust Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium xylene sulfonate	(CAS No) 1300-72-7	1-5	Eye Irrit. 2A, H319
Benzenesulfonic acid, C10-16-alkyl derivatives	(CAS No) 68584-22-5	1-5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation: dust,mist), H332 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]. More than one of the ranges of concentration prescribed by Hazardous Products Regulations has been used where necessary, due to varying composition.

### 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. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 15-20 minutes. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor.

First-aid Measures After Eye Contact: Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/Injuries: Causes severe skin burns and eye damage. Causes serious eye damage.

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

Symptoms/Injuries After Skin Contact: Causes severe irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None known.

#### 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: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

#### 5.2. Special Hazards Arising from the Substance or Mixture

Fire Hazard: Flammable liquid and vapor, however does not sustain combustion.

Explosion Hazard: Contact with metallic substances may release flammable hydrogen gas.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion. May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react exothermically with water releasing a small amount of heat. Adding an acid to a base or base to an acid may cause a violent reaction. Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

#### 5.3. Advice for Firefighters

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

# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not breathe fumes from fires or vapors from decomposition.

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

Hazardous Combustion Products: Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Phosphorus oxides. Chlorine. Hydrogen chloride. Sulfur oxides. Corrosive vapors.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

### SECTION 6: Accidental Release Measures

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist or spray.

##### 6.1.1. For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

##### 6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

#### 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. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Cautiously neutralize spilled liquid. Ventilate area. Absorb and/or contain spill with inert material. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Contact competent authorities after a spill.

#### 6.4. Reference to Other Sections

See Section 8: Exposure Controls and Personal Protection.

### SECTION 7: Handling And Storage

#### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: May be corrosive to metals.

Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors, mists, and spray. Use appropriate personal protection equipment (PPE).

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

Storage: Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Store in original container or corrosive resistant and/or lined container. Storage areas should be periodically checked for corrosion and integrity.

Pesticide Storage: Do not store near heat or open flame. If frozen, thaw and remix before use. Store in a dry, cool place.

Incompatible Products: Strong bases. Strong oxidizers. Alkalis. Metals. Isocyanates. Nitriles. Reducing agents. Potential violent reaction with sodium tetrahydroborate.

#### 7.3. Specific End Use(s)

Disinfectant/Cleaner. For professional use only.

### SECTION 8: Exposure Controls/Personal Protection

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Isopropyl alcohol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA ACGIH	Biological Exposure Indices (BEI)	40 mg/l (Medium: urine - Time: end of shift at end of workweek - Parameter: Acetone (background, nonspecific))
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	400 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (ppm)	500 ppm
USA IDLH	US IDLH (ppm)	2000 ppm (10% LEL)
Alberta	OEL STEL (mg/m <sup>3</sup> )	984 mg/m <sup>3</sup>
Alberta	OEL STEL (ppm)	400 ppm
Alberta	OEL TWA (mg/m <sup>3</sup> )	492 mg/m <sup>3</sup>
Alberta	OEL TWA (ppm)	200 ppm

# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

British Columbia	OEL STEL (ppm)	400 ppm
British Columbia	OEL TWA (ppm)	200 ppm
Manitoba	OEL STEL (ppm)	400 ppm
Manitoba	OEL TWA (ppm)	200 ppm
New Brunswick	OEL STEL (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
New Brunswick	OEL STEL (ppm)	500 ppm
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
New Brunswick	OEL TWA (ppm)	400 ppm
Newfoundland & Labrador	OEL STEL (ppm)	400 ppm
Newfoundland & Labrador	OEL TWA (ppm)	200 ppm
Nova Scotia	OEL STEL (ppm)	400 ppm
Nova Scotia	OEL TWA (ppm)	200 ppm
Nunavut	OEL STEL (mg/m <sup>3</sup> )	1228 mg/m <sup>3</sup>
Nunavut	OEL STEL (ppm)	500 ppm
Nunavut	OEL TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Nunavut	OEL TWA (ppm)	400 ppm
Northwest Territories	OEL STEL (ppm)	400 ppm
Northwest Territories	OEL TWA (ppm)	200 ppm
Ontario	OEL STEL (ppm)	400 ppm
Ontario	OEL TWA (ppm)	200 ppm
Prince Edward Island	OEL STEL (ppm)	400 ppm
Prince Edward Island	OEL TWA (ppm)	200 ppm
Québec	VECD (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
Québec	VECD (ppm)	500 ppm
Québec	VEMP (mg/m <sup>3</sup> )	985 mg/m <sup>3</sup>
Québec	VEMP (ppm)	400 ppm
Saskatchewan	OEL STEL (ppm)	400 ppm
Saskatchewan	OEL TWA (ppm)	200 ppm
Yukon	OEL STEL (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
Yukon	OEL STEL (ppm)	500 ppm
Yukon	OEL TWA (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Yukon	OEL TWA (ppm)	400 ppm
<b>Phosphoric acid (7664-38-2)</b>		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Alberta	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
British Columbia	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Manitoba	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Manitoba	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
New Brunswick	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Nova Scotia	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Nunavut	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Nunavut	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Ontario	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Prince Edward Island	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Québec	VECD (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Yukon	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>

# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

### 8.2. Exposure Controls

- Appropriate Engineering Controls : Ensure all national/local regulations are observed. 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.
- Personal Protective Equipment : Personal protective equipment should be selected based upon the conditions under which this product is handled or used. The following pictograms represent the minimum requirements for personal protective equipment. Protective clothing. Gloves. Protective goggles.



- Hand Protection : Wear protective gloves.
- Eye Protection : Chemical safety goggles or safety glasses.
- Skin and Body Protection : Wear suitable protective clothing.
- Respiratory Protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
- 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

- Physical State : Liquid
- Appearance : Light Straw; Clear
- Odor : Characteristic; mild
- Odor Threshold : No data available
- pH : 0.25 (1% w/w dilution pH=2.08)
- Evaporation rate : No data available
- Melting Point : No data available
- Freezing Point : No data available
- Boiling Point : No data available
- Flash Point : >94 °F (34 °C) Closed Cup
- Auto-ignition Temperature : No data available
- Decomposition Temperature : No data available
- Flammability : No Sustained Combustion (Sustained Combustibility Test L.2, Part III, Section 32.5.2 of the UN Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria.
- Vapor Pressure : 44mmHg @ 25°C
- Relative Vapor Density at 20 °C : No data available
- Relative Density : No data available
- Specific Gravity : 1.1175
- Solubility : Complete in water.
- Partition coefficient: n-octanol/water : No data available
- Viscosity : No data available
- Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.
- Explosion Data – Sensitivity to Static Discharge : Static discharge could act as an ignition source

### 9.2. Other Information

No additional information available

## SECTION 10: Stability And Reactivity

### 10.1 Reactivity:

Hazardous reactions will not occur under normal conditions.

### 10.2 Chemical Stability:

Stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4 Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, incompatible materials.

### 10.5 Incompatible Materials:

Strong bases. Strong oxidizers. Alkalis. Metals.

### 10.6 Hazardous Decomposition Products:

None known.

# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

### SECTION 11: Toxicological Information

#### 11.1. Information on Toxicological Effects

LpH® III se Phenolic Disinfectant	
LD50 Oral Rat	3129 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
LC50 Inhalation Rat	> 0.61 mg/l (Exposure time: 4 h)
2-Phenylphenol (90-43-7)	
LD50 Oral Rat	2733 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 0.949 mg/l (Exposure time: 1 h)
o-Benzyl-p-chlorophenol (120-32-1)	
LD50 Oral Rat	1700 mg/kg
Isopropyl alcohol (67-63-0)	
LD50 Oral Rat	4710 mg/kg
LD50 Dermal Rabbit	4059 mg/kg
LC50 Inhalation Rat	72.6 mg/l/4h (Exposure time: 4 h)
LC50 Inhalation Rat	72.5 mg/l/4h
Sodium xylene sulfonate (1300-72-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)	
LD50 Oral Rat	775 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	1.9 mg/l/4h
Phosphoric acid (7664-38-2)	
LD50 Oral Rat	1530 mg/kg
LD50 Dermal Rabbit	2740 mg/kg
LC50 Inhalation Rat	> 850 mg/m <sup>3</sup> (Exposure time: 1 h)

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

pH: 0.66

Serious Eye Damage/Irritation: Causes serious eye damage.

pH: 0.66

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: No data available

Carcinogenicity: Not classified

2-Phenylphenol (90-43-7)	
IARC group	3
Isopropyl alcohol (67-63-0)	
IARC group	3

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 irritation which will progress to chemical burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris or conjunctiva.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. May cause burns or irritation of the linings of the mouth, throat and gastrointestinal tract.

Chronic Symptoms: None known. There is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

Ecology - General : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

LpH® III se Phenolic Disinfectant	
LC50 Fish 1	5.263 mg/l (Exposure time: 96 h -Species: Fathead minnows)
2-Phenylphenol (90-43-7)	
LC50 Fish 1	3.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	1 - 2.5 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC 50 Fish 2	2.74 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
ErC50 (algae)	3.57 mg/l (72h, Selenastrum capricornutum)
NOEC chronic fish	0.036 mg/l
NOEC chronic algae	0.468 mg/l Selenastrum capricornutum
o-Benzyl-p-chlorophenol (120-32-1)	
LC50 Fish 1	0.72 ppm (Oncorhynchus mykiss (Rainbow trout) )
EC50 Daphnia 1	0.59 ppm (Daphnia magna (Water flea; 48hr)
Isopropyl alcohol (67-63-0)	

# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

LC50 Fish 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Other Aquatic Organisms 1	1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC 50 Fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Other Aquatic Organisms 2	1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
<b>Sodium xylene sulfonate (1300-72-7)</b>	
EC50 Daphnia 1	> 1020 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow-through])

<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
LC50 Fish 1	3 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	2.9 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 (algae)	170 mg/l (Exposure time: 96 h - Species: Selenastrum capricornutum)

### 12.2. Persistence and Degradability

<b>LpH® III se Phenolic Disinfectant</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

<b>LpH® III se Phenolic Disinfectant</b>	
Bioaccumulative Potential	Not established.
<b>2-Phenylphenol (90-43-7)</b>	
Log Pow	3.18
<b>Isopropyl alcohol (67-63-0)</b>	
Log Pow	0.05 (at 25 °C)
<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
Log Pow	2 (at 23 °C)
<b>Benzene, mono-C10-13-alkyl derivatives (129813-58-7)</b>	
BCF fish 1	35 (Lepomis macrochirus)

### 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

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial and international regulations.

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology – Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

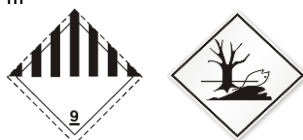
## SECTION 14: Transport Information

### 14.1 In Accordance with DOT

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(O-PHENYLPHENOL, O-BENZYL-P-CHLOROPHENOL)  
Hazard Class : 9  
Identification Number : UN3082  
Packing Group : III  
Marine Pollutant : Yes; This product is not subject to hazmat regulation in volumes less than 5 liters, combination or single packagings, or when transported over land.  
ERG Number : 171

### 14.2 In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(O-PHENYLPHENOL, OBENZYL-P-CHLOROPHENOL)  
Hazard Class : 9  
Identification Number : UN3082  
Packing Group : III  
Hazard Labels :



Marine pollutant : Yes; Per IMDG 2.10.2.7, this product is not subject to dangerous goods regulation in volumes less than 5 liters, combination or single packagings.

# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

### 14.3 In Accordance with IATA

Proper Shipping Name	: ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (O-PHENYLPHENOL, O-BENZYL-P-CHLOROPHENOL)
Packing Group	: III
Identification Number	: 9
Hazard Class	: UN3082
Marine Pollutant	: Yes; Per SP A197 this product is not subject to dangerous goods regulation in volumes less than 5 liters, combination or single packagings.
ERG Code (IATA)	:

### 14.4 In Accordance with TDG

Proper Shipping Name	: ENVIRONMENTAL HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (O-PHENYLPHENOL, O-BENZYL-P-CHLOROPHENOL)
Packing Group	: III
Hazard Class	: 9
Identification Number	: UN3082
Marine Pollutant (TDG)	: Yes; Per TDG 4.22, this product is not subject to dangerous goods regulation in volumes less than 5 liters, combination or single packagings.

## SECTION 15: Regulatory Information

### 15.1 US Federal Regulations

<b>LpH® III se Phenolic Disinfectant</b>	
EPA FIFRA Pesticide Product Notice	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
EPA FIFRA Signal Word	Danger
EPA FIFRA Hazard Statements	Keep out of reach of children.
EPA FIFRA Precautionary Statements	HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS. Corrosive. Causes skin burns and irreversible eye damage. Harmful if swallowed or inhaled. Do not get in eyes, on skin or on clothing. Avoid vapor or spray mist. Wear goggles, face shield or safety glasses. Wear waterproof gloves, long-sleeved shirt, long pants and shoes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.
<b>LpH® III se Phenolic Disinfectant</b>	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
<b>2-Phenylphenol (90-43-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1.0 %
<b>o-Benzyl-p-chlorophenol (120-32-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Isopropyl alcohol (67-63-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA
SARA Section 313 - Emission Reporting	1.0 % (only if manufactured by the strong acid process, no supplier notification)
<b>Sodium 1-octanesulfonate (5324-84-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Sodium xylene sulfonate (1300-72-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Phosphoric acid (7664-38-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

### 15.2 US State Regulations

<b>2-Phenylphenol (90-43-7)</b>	
U.S. - Massachusetts - Right To Know List	



# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

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

### Isopropyl alcohol (67-63-0)

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

### Phosphoric acid (7664-38-2)

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

## 15.3. Canadian Regulations

### 2-Phenylphenol (90-43-7)

Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
IDL Concentration 1 %

### o-Benzyl-p-chlorophenol (120-32-1)

Listed on the Canadian DSL (Domestic Substances List)

### Isopropyl alcohol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
IDL Concentration 1 %

### Sodium 1-octanesulfonate (5324-84-5)

Listed on the Canadian DSL (Domestic Substances List)

### Sodium xylene sulfonate (1300-72-7)

Listed on the Canadian DSL (Domestic Substances List)

### Benzenesulfonic acid, C10-16-alkyl derivatives (68584-22-5)

Listed on the Canadian DSL (Domestic Substances List)

### Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
IDL Concentration 1 %

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 : 10/27/2017  
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 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
Comb. Dust	May form combustible dust concentrations in air
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
H332	Harmful if inhaled
H335	May cause respiratory irritation

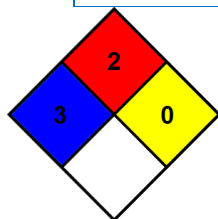
# LpH® III se Phenolic Disinfectant

## Safety Data Sheet

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

H336

May cause drowsiness or dizziness



NFPA Health Hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA Fire Hazard

: 2 - Must be moderately heated or exposed to relatively high temperature 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  
+1 800-548-4873

*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 not therefore be construed as guaranteeing any specific property of the product.*

STERIS NA GHS SDS