



## SAFETY DATA SHEET

### 1. Identification of the Substance and Company

**Environ™ LpH™ st Sterile Phenolic Disinfectant**

**Product No. 6411**

**MSDS No. 6411**

**NFPA 704 Hazard Rating**

**Health: 3**

**Fire: 2**

**Reactivity: 0**

**Prepared by: M. Ebers**

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**Date Created: December 21, 2005**

**Date Revised: January 30, 2008**

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)

STERIS Limited, STERIS House, Jays Close, Viabes, Basingstoke, Hampshire, RG22 4AX, UK

Emergency Phone No: +44 (0) 1895 622639; Product/Technical Information Phone No: +44 (0) 1256

840400

**2. Hazards Identification:** Corrosive to eyes and skin. Combustible.

### 3. Composition/Information on Ingredients

Hazardous Component(s)	% By Wt.	CAS No.	EU No.	Symbol	R Phrases	Oral LD <sub>50</sub>	Inhalation LC <sub>50</sub>
2-phenylphenol	7.7	90-43-7	201-993-5	Xi, N	R36/37/38, R50	>2000 mg/kg (rat)	ND
o-benzyl-p-chlorophenol	7.7	120-32-1	204-385-8	ND	ND	ND	ND
Isopropanol	~10.0	67-63-0	200-661-7	F, Xi	R11, R36, R67	ND	ND
Phosphoric acid	~14.0	7664-38-2	231-633-2	Xi	R36/38	1530 mg/kg bw (rat)	61-1689 mg/m <sup>3</sup> /1hr P205 (guinea pig, mouse, rat, rabbit)
Dodecylbenzene sulfonic acid	5.0	68584-22-5	271-528-9	C, Xn	ND	2140 mg/kg (rat)	510 mg/m <sup>3</sup> /2hr (rat)

### 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 plenty of water for at least 15 minutes. Get medical attention if irritation develops.

**Inhalation:** Remove to fresh air and contact a physician if irritation persists.

**Ingestion:** Do not induce vomiting. Get medical attention. Do not give anything by mouth to an unconscious person. If conscious, drink large quantity of milk or water.

### 5. Fire-Fighting Measures

**Conditions of Flammability/Flash Point/Auto-Ignition Temperature:**

104 F (TCC) but does not sustain combustion

**Flammability Classification:** Combustible

**Upper Flammable Limit:** ND **Lower Flammable Limit:** ND

**Special Hazards:** None known.

**Extinguishing Media:** Suitable for surrounding fire: water fog, "alcohol" foam, dry chemical or CO<sub>2</sub>.

**Explosibility Data:** ND

**Special Fire Fighting Procedures:** None known.

**Hazardous Combustion Products:** Forced ignition of dried residues may produce carbon monoxide,

carbon dioxide, nitrogen oxide

### 6. Accidental Release Measures

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.

### 7. Handling and Storage

**7.1 Handling:** Avoid contact.

**7.2 Storage:** Keep from freezing. If frozen, thaw and remix before using.

### 8. Exposure Control/Personal Protection

#### 8.1 Occupational Exposure Limits

2-phenylphenol subject to reporting under Section 313 of Title III (SARA) and 40 CFR 372.

Isopropanol: ACGIH TLV = 200 ppm; OSHA PEL, HSE EH40 LTEL and Irish H&SA OELV (8 hr.) = 400 ppm;

ACGIH, OSHA and HSE EH40 STEL and Irish H&SA OELV (15 min.) = 500 ppm

Phosphoric acid: ACGIH TLV, OSHA PEL and Irish H&SA OELV (8 hr.) = 1 mg/m<sup>3</sup>; ACGIH and OSHA STEL = 3

mg/m<sup>3</sup>; UK HSE EH40 STEL and Irish H&SA OELV (15 min.) = 2 mg/m<sup>3</sup>

#### 8.2 Personal Protection

**Respirator Protection:** Not normally required. Required if established exposure limits (Sec. 8.1) are exceeded.

**Eye Protection:** Safety glasses or eye goggles.

**Protective Gloves:** Rubber.

**Other Protective Clothing and Equipment:** NA

**Engineering Controls/Ventilation:** Adequate ventilation to maintain air concentrations below established limits.

### 9. Physical and Chemical Properties

**Solubility in Water:** Complete

**Specific Gravity: Approximately:** 1.0

**Physical State/Appearance/Odor:** Liquid with mild pleasant odor.

**pH as Distributed:** Approximately 0.3.

**pH Diluted 1:128:** Approximately 2.0

**Odor Threshold, Vapor Pressure, Vapor Density, Evaporation Rate, Boiling Point and Freezing Point:** ND

**Coefficient of Water/Oil Distribution:** ND

### 10. Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur.

**Incompatible Materials:** Strong oxidizers

**Conditions to Avoid/Conditions of Reactivity:** None known.

**Hazardous Decomposition or Byproducts:** Forced ignition of dried residues may produce carbon monoxide, carbon dioxide, nitrogen oxide.

### 11. Toxicological Information

#### 11.1 Acute (Primary Routes of Exposure)

**Eyes (Irritancy):** Concentrate considered severely irritating to eyes.

**Skin (Irritancy or Sensitization):** Concentrate considered severely irritating to skin.

**Ingestion:** May cause gastrointestinal irritation.

**Inhalation:** Mists may irritate nasal passages.

#### 11.2 Long Term Exposure

None known.

**Carcinogenicity:** IARC, NTP and OSHA do not list this product or its ingredients as carcinogens.

2-phenylphenol produced urinary bladder tumors in male rats and liver tumors in male mice when fed exaggerated doses.

**Reproductive Toxicity/Teratogenicity/Mutagenicity/Toxicologically Synergistic Products:** ND

**12. Ecological Information:** None available

### 13. Disposal Considerations

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.

### 14. Transport Information

**Ground and Sea:** Disinfectant, Liquid, Corrosive N.O.S. (o-phenylphenol and o-benzyl-p-chlorophenol) 8, UN 1903, PG III

**Air:** Package not approved for air shipment.

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## 15. Regulatory Information

**EU Regulations:** This preparation is classified as dangerous as defined by the UK Chemicals (Hazard Information and Packaging for Supply) Regulations. These regulations implement a number of EC Directives including the Dangerous Substances Directive (67/548/EEC and amendments), the Dangerous Preparations Directive (88/379/EEC and amendments) and the Safety Data Sheets Directive (91/155/EEC and amendment).

**EEC Classification:** CORROSIVE/DANGEROUS FOR THE ENVIRONMENT

**Hazard Symbol:** C/N

**Risk Phrases:** R34: Causes burns. R50: Very toxic to aquatic organisms. R67: Vapours may cause drowsiness and dizziness.

**Safety Phrases:** S2: Keep out of reach of children. S16: Keep away from sources of ignition – No smoking. S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accident or if you feel unwell seek medical advice immediately (show label when possible). S61: Avoid release to the environment. Refer to special instructions/Safety data sheet.

**USA State Regulations:** 2-phenylphenol appears on California Proposition 65 list.

**US EPA Regulations:** 2-phenylphenol subject to reporting under Section 313 of Title III (SARA) and 40 CFR 372.

## 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 instructions or recommendations are not followed.

NA - Not Applicable

ND - No Data