



SAFETY DATA SHEET

1. Identification of the Substance and Company

Environ™ Vesphene™ st Sterile Phenolic Disinfectant

Product No. 6413

MSDS No. 6413

Prepared by: M. Ebers

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Date Created: December 21, 2005

Date Revised: January 30, 2008

NFPA 704 Hazard Rating

Health: 3

Fire: 2

Reactivity: 0

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)

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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 ₅₀	Inhalation LC ₅₀
2-phenylphenol	9.09	90-43-7	201-993-5	Xi, N	R36/37/38, R50	>2000 mg/kg (rat)	ND
o-benzyl-p-chlorophenol	7.70	120-32-1	204-385-8	ND	ND	ND	ND
Isopropanol	~2.5	67-63-0	200-661-7	F, Xi	R11, R36, R67	ND	ND
Potassium hydroxide	~ 6.5	1310-58-3	215-181-3	C	R35	365 mg/kg (rat)	ND
Phosphoric acid	~ 1.5	7664-38-2	231-633-2	Xi	R36/R38	1530 mg/kg bw (rat)	61-1689 mg/m ³ /1hr P205 (guinea pig, mouse, rat, rabbit)

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: 137 F

Flammability Classification: Combustible but does not sustain combustion

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 CO₂.

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/m³; ACGIH and OSHA STEL = 3 mg/m³; UK HSE EH40 STEL and Irish H&SA OELV (15 min.) = 2 mg/m³

Potassium hydroxide: ACGIH (Ceiling) and Irish H&SA OELV (15 min.) = 2 mg/m³

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 12.

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 high 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.

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).

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EEC Classification: CORROSIVE/DANGEROUS FOR THE ENVIRONMENT

Hazard Symbol: C/N

Risk Phrases: R34: Causes burns. R50: Very toxic to aquatic organisms.

Safety Phrases: S2: Keep out of reach of children. 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. S37/39: Wear suitable 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