SAFETY DATA SHEET

1. Identification of the Substance and Company
Vesphene II SE
Product No. 6461
MSDS No. 6461
Prepared by: M. Ebers
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Date Created: December 1, 2001  Date Revised: January 7, 2009
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: 1-800-548-4873 (Customer Service-Healthcare Products)

2. Hazards Identification: Severely irritating to eyes and skin

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>EEC No.</th>
<th>CAS No.</th>
<th>% By Wt.</th>
<th>Symbol</th>
<th>R Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-phenylphenol</td>
<td>201-993-3</td>
<td>90-43-7</td>
<td>9.09</td>
<td>X/N</td>
<td>36/37/38, 50</td>
</tr>
<tr>
<td>p-tertiary amylphenol</td>
<td>Not Listed</td>
<td>80-48-6</td>
<td>7.66</td>
<td>[C/X]</td>
<td>34, 22</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>125-181-3</td>
<td>1310-58-3</td>
<td>5.00</td>
<td>C/X</td>
<td>22, 35</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>125-180-5</td>
<td>1310-73-2</td>
<td>2.00</td>
<td>C</td>
<td>36/38</td>
</tr>
</tbody>
</table>

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 patient to fresh air. If not breathing, give artificial respiration. Get medical attention.
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: Not Flammable
Upper Flammable Limit: NA  Lower Flammable Limit: NA
Special Hazards: None known
Extinguishing Media: Suitable for surrounding fire. Special Fire Fighting Procedures: None known.
Hazard Combustion Products: Forced ignition of dried residues may produce CO₂, CO, sulfur oxides

6. Accidental Release Measures
Ensure suitable personal protection during removal of spillages. Spills should be contained and may be cautiously neutralized with a weak acid solution, or absorbed on appropriate material and placed in a container for disposal. Flush spill site with large quantities of water to a sanitary sewer. Washings should be prevented from entering surface water/storm drains. Local regulations should be observed.

7. Handling and Storage
7.1 Handling
Product will withstand an occasional accidental freezing. It must be thoroughly thawed and agitated (roll drum) before being used.
7.2 Storage
Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

8. Exposure Control/Personal Protection
8.1 Occupational Exposure Limits
Sodium hydroxide: ACGIH TLV and OSHA PEL = 2 mg/m³ ceiling; UK HSE E40 STEL = 2 mg/m³
Potassium hydroxide: ACGIH TLV = 2 mg/m³ ceiling; ACGIH and OSHA STEL = 3 mg/m³; UK HSE E40 STEL = 2 mg/m³

8.2 Personal Protection
Respirator Protection: None normally required. Required if established exposure limits (Sec. 8.1) are exceeded.
Eye Protection: Safety glasses or goggles.
Protective Gloves: Rubber.
Other Protective Clothing and Equipment: Mists of use-solutions may be irritating to nasal passages and lungs.
Engineering Controls/Ventilation: Adequate ventilation to maintain air concentrations below established limits.

9. Physical and Chemical Properties
Solubility in Water: Complete  Specific Gravity: Approximately 1.10
Odor Threshold, Vapor Pressure, Vapor Density, Evaporation Rate, Boiling Point and Freezing Point: ND
Coefficient of Water/Oil Distribution: ND

10. Stability and Reactivity
Incompatible Materials: Reaction with acid can create heat.
Conditions to Avoid/Conditions of Reactivity: None known.
Hazardous Decomposition or Byproducts: Forced ignition of dried residues may produce CO₂, CO, sulfur oxides

11. Toxicological Information
11.1 Acute (Primary Routes of Exposure)
Eyes (Irritancy): Concentrate severely irritating to eyes. 1:200 dilution slightly irritating to eyes.
Skin (Irritancy or Sensitization): Concentrate severely irritating to skin. 1:200 dilution slightly irritating to skin.
Inhalation: Inhalation toxicity >54 ml/liter at 1:200 for 4 hours. Mists may irritate nasal passages.
Ingestion: Oral LD₅₀ (rats) 4,500 mg/kg. Causes upset to stomach.

11.2 Long Term Exposure
Carcinogenicity: IARCA, 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/Toxico logically Synergistic Products: ND

12. Ecological Information: None available

13. Disposal Considerations
Do not contaminate ponds, waterways, or ditches with chemical or used containers. Empty containers should be rinsed thoroughly and may be cautiously neutralized with a weak acid solution, or absorbed on appropriate material and placed in a container for disposal. Flush spill site with large quantities of water to a sanitary sewer. Washings should be prevented from entering surface water/storm drains. Local regulations should be observed.

14. Transport Information
Ground/Air/Sea: Non-hazardous

15. Regulatory Information
USA State Regulations: May contain trace levels of formaldehyde. Contains 2-phenylphenol.
US EPA Regulations: 2-phenylphenol subject to reporting under Section 313 of Title III (SARA) and 40 CFR 372.
US EPA Registration Number: 1043-87

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 instruction or recommendations are not followed.
NA - Not Applicable
ND - No Data