STERIS

# SAFETY DATA SHEET

**1. Identification of the Substance and Company**

## Vesphene II SE
## Product No. 6461
**MSDS No. 6461**

**NFPA 704 HAZARD RATING:**

| | |
|---|---|
| **HEALTH:** | **3** |
| **FIRE:** | **1** |
| **REACTIVITY:** | **0** |

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**2. Composition/Information on Ingredients**

| Hazardous Component(s) | EEC No. | CAS No. | % By Wt. | Symbol | R Phrases |
|---|---|---|---|---|---|
| 2-phenylphenol | 201-993-5 | 90-43-7 | 9.09 | $X_i$/N | 36/37/38, 50 |
| p-tertiary amylphenol | Not Listed | 80-46-6 | 7.66 | [C/$X_n$] | [34, 22] |
| Potassium hydroxide | 215-181-3 | 1310-58-3 | 5.00 | C/$X_n$ | 22, 35 |
| Sodium hydroxide | 215-185-5 | 1310-73-2 | < 2.00 | C | 36/38 |

**3. Hazards Identification:** Severely irritating to eyes and skin

**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**
**Flash Point:** Not Flammable
**Extinguishing Media:** Suitable for surrounding fire. **Special Fire Fighting Procedures:** None known.

**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/m$^3$ ceiling; UK HSE E40 STEL = 2 mg/m$^3$
Potassium hydroxide: ACGIH TLV = 2 mg/m$^3$ ceiling; ACGIH and OSHA STEL = 3 mg/m$^3$; UK HSE E40 STEL = 2 mg/m$^3$
**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.
**Ventilation:** Adequate ventilation to maintain air concentrations below established limits.

**9. Physical and Chemical Properties**
**Solubility in Water:** Complete **Specific Gravity:** Approximately 1.10
**Appearance/Odor:** Red liquid. Mild odor. **pH:** Approximately 12.3

**10. Stability and Reactivity**
**Stability:** Stable **Hazardous Polymerization:** Will not occur.
**Incompatible Materials:** Reaction with acid can create heat.
**Conditions to Avoid:** None known.
**Hazardous Decomposition or Byproducts:** Forced ignition of dried residues may produce $CO_2$, CO, sulfur oxides

**11. Toxicological Information**
**11.1 Acute (Primary Routes of Exposure)**
**Eyes:** Concentrate severely irritating to eyes. 1:200 dilution slightly irritating to eyes.
**Skin:** 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 $LD_{50}$ (rats) 4,500 mg/kg. Causes upset to stomach.
**11.2 Long Term Exposure**
**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.

**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 discarded in an appropriate waste container. [Containers may be offered for reconditioning/recycling.] Empty containers should not be used for other purposes. Disposal of unwanted product should be done in accordance with local, state or national legislation. Product may be flushed to a sanitary sewer with copious amounts of water, if in accordance with state, local and federal regulations. For additional guidance, contact the State Water Board or the Regional Office of the EPA.

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

**15. Regulatory Information**
**EEC Classification:** IRRITANT/DANGEROUS FOR THE ENVIRONMENT
**Hazard Symbol:** Xi/N
**Risk Phrases:** R38: Irritating to skin. R41: Risk of serious damage to eyes. 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:** May contain trace levels of formaldehyde. Contains 2-phenylphenol.
**US EPA Regulations:** 2-phenylpehnol 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