
Santovac[®] Fluids

Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: OS-138[™] POLYPHENYL ETHER LUBRICANT

Chemical Family: polyphenyl ether

SANTOVAC[®] FLUIDS, INC., 8 Governor Drive, St. Charles, MO 63301

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT

Call CHEMTREC - Day or Night - 1-800-424-9300. Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted)

For additional non-emergency information, call: 636-723-0240

2. COMPOSITION/INFORMATION ON INGREDIENTS

OS-138 polyphenyl ether is a six ring Polyphenyl Ether. The CAS Number for this material is 3705-62-2. It is not a hazardous chemical(s) under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance and Odor: clear, yellow viscous liquid with no odor.

NO SIGNIFICANT HAZARDS ASSOCIATED WITH THIS MATERIAL

POTENTIAL HEALTH EFFECTS

Likely Routes of Exposure: skin contact

Eye Contact: No more than slightly irritating based on toxicity studies.

Skin Contact: No more than slightly toxic or slightly irritating based on toxicity studies.

Inhalation: No information

Ingestion: No more than slightly toxic based on toxicity tests. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to Section 11 for toxicological information.

4. FIRST AID MEASURES

IF IN EYES OR ON SKIN, Immediate first aid is not likely to be required. However, this material can be removed with water. Wash heavily contaminated clothing before reuse.

IF INHALED, immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air. Remove material from eyes, skin and clothing.

IF SWALLOWED, immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice. Wash heavily contaminated clothing before reuse.

5. FIRE FIGHTING MEASURES

Flash Point: 580°F (304°C) Method: Cleveland Open Cup

Autoignition Temperature: 1170°F (632°C) Method: ASTM D-2155

Fire Point: 750°F (398°C) Method: Cleveland Open Cup

Extinguishing Media: In case of fire, use water spray (fog), foam, dry chemical, or CO₂.

Unusual Fire and Explosion Hazards: None known

Fire Fighting Equipment: Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container.

Refer to Section 13 for disposal information and Section 15 for reportable quantity information.

7. HANDLING AND STORAGE

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. THESE PRACTICES INCLUDE AVOIDING UNNECESSARY EXPOSURE AND REMOVAL OF MATERIAL FROM EYES, SKIN AND CLOTHING.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Storage: Product is stable under normal conditions of storage and handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

Skin Protection: Although it does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

Respiratory Protection: Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 CFR 1910.134.

Ventilation: Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Airborne Exposure Limits:

Product: OS-138 Polyphenyl Ether Lubricant

OSHA PEL: None established

ACGIH TLV: None established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, yellow viscous liquid
Odor: none
Vapor Pressure: 1 mm Hg @ 316°C
Viscosity: 2065 @ 100°F (centistokes)
25.1 @ 210°F (centistokes)
Specific Gravity: 1.214 @ 25/25°C
Solubility in Water: less than 0.0001% @ 25°C
Pour Point: 55°F
Vapor Density: approximately 18 (air=1)

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions of storage and handling.

Materials to Avoid: highly oxidizing materials

Hazardous Decomposition Products: Continued use at temperatures above 425°C may result in the formation of benzene and phenol. If the product is burned, complete combustion produces carbon dioxide and water and partial combustion produces carbon monoxide, smoke, soot and low molecular weight hydrocarbons.

Hazardous Polymerization: Does not occur.

11. TOXICOLOGICAL INFORMATION

Data from laboratory studies with OS-138 polyphenyl ether lubricant are summarized below.

OS-138 Polyphenyl Ether Lubricant

Single exposure (acute) studies indicate:

Oral -	Practically Nontoxic	(Rat LD50 > 15,800 mg/kg)
Dermal -	Practically Nontoxic	(Rabbit LD50 > 7,940 mg/kg)
Eye Irritation -	Practically Nonirritating	(Rabbit, 0.8/110.0)
Skin Irritation -	Nonirritating	(Rabbit, 24-hr exposure, 0.0/8.0)

12. ECOLOGICAL INFORMATION

Santovac® Fluids, Inc. has not conducted environmental toxicity studies with this product.

13. DISPOSAL CONSIDERATIONS

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dispose of by incineration or recycle in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

This product is not hazardous under the applicable DOT, ICAO/IATA, or IMDG regulations.

15. REGULATORY INFORMATION

TSCA Inventory: All components are listed.

SARA Hazard Notification

Hazard Categories Under Title III Rules (40 CFR 370): Not Applicable
Section 313 Toxic Chemical(s): Not Applicable

CERCLA Reportable Quantity: Not Applicable

Refer to Section 2 for OSHA Hazardous Chemical(s) and Section 13 for RCRA classification.

16. OTHER INFORMATION

Reason for revision: Section 15 - removal of CERCLA RQ. Convert to the 16 section format.

OS-138™ is a trademark of Santovac® Fluids, Inc.

Date: 01/03/00

Supersedes: 02/29/96

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