**1. IDENTIFICATION**

- **Chemical Name:** Octylphenoxypolyethyleneoxidephosphate
- **Chemical Family:** None
- **CAS #:** None
- **Chemical Formula:** Mixture
- **CAS Name:** None
- **Molecular Weight:** NA
- **Synonyms / Common Name:** Spray adjuvant
- **DOT Information:** Not subject to DOT

**2. PHYSICAL DATA**

- **Appearance:** Clear
- **Color:** Pale Yellow
- **State:** Liquid
- **Odor Characteristics:** Alcohol odor
- **pH:** 1.0 to 3.5 in a 5% solution
- **Viscosity:** 440 CPS
- **Specific Gravity (Water = 1):** 1.13
- **Vapor Density (Air = 1):** 3.6
- **Vapor Pressure:** 15.9 mm Hg @ 20°C
- **Melting Point:** NA
- **Boiling Point:** 243 F
- **Flash Point:** 120 F
- **Freezing Point:** NA
- **Percent Volatility:** 30 to 40% Butanol
- **Evaporation Rate (BAc = 1):** <1
- **Solubility in Water:** Dispersible
- **Solubility in Oil:** NA
- **Solubility in Acetone:** NA

**3. INGREDIENTS**

<table>
<thead>
<tr>
<th>Material / Components</th>
<th>CAS #:</th>
<th>CAS Name</th>
<th>TLV Units</th>
<th>Approx. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octylphenoxypolyethyleneoxidephosphate</td>
<td>52623-95-7</td>
<td></td>
<td></td>
<td>66-72 %</td>
</tr>
<tr>
<td>Butyl alcohol</td>
<td>71-36-3</td>
<td></td>
<td></td>
<td>11-14 %</td>
</tr>
</tbody>
</table>

**4. FIRE AND EXPLOSION HAZARD DATA**

- **Flash Point:** 120 F
- **Flammable Limits in Air % by volume:**
  - Lower: 1.4% n-Butanol
  - Upper: 11.2% n-Butanol
- **Extinguishing Media:** On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.
- **Special Fire Fighting Procedures:** Self-contained breathing apparatus and protective clothing should be worn in fighting fires. Remain upwind. Avoid breathing smoke. Contain runoff.
- **Unusual Fire & Explosion Hazards:** Vapors can travel to a source of ignition and flash back.
### 5. HEALTH HAZARD DATA

<table>
<thead>
<tr>
<th>Threshold Limit Value:</th>
<th></th>
</tr>
</thead>
</table>

**Effects of Overexposure:**

- **Inhalation:** Inhalation of high vapor or mist concentrations can cause nausea - headache - drowsiness - dizziness - slurred speech - stupor - unconsciousness
- **Skin Contact:** Material can cause moderate skin irritation, defatting and dryings of the skin, and dermatitis. The solvents in this material can be absorbed through intact skin.
- **Eye Contact:** Direct contact with material can cause permanent, irreversible eye injury.
- **Ingestion:** Harmful if swallowed

**Delayed Effects:** None known

**Medical Conditions Aggravated by Exposure:** No known applicable information.

### 6. FIRST AID MEASURES

- **Inhalation:** Remove to fresh air. Give artificial respiration if breathing has stopped. Get immediate medical attention.
- **Skin Contact:** Remove contaminated clothing and wash with soap and water. Get medical attention.
- **Eye Contact:** Immediately flush with water for 15 minutes. Get medical attention.
- **Ingestion:** If swallowed, give 2 glasses of water to drink. Never give anything by mouth to an unconscious person. Do Not induce vomiting. Get Medical attention immediately

**NOTES TO PHYSICIAN:** Treat according to person’s condition and specifics of exposure.

### 7. REACTIVITY DATA

- **Stability:** Stable.
- **Incompatibility:** Avoid contact with strong oxidizing and/or reducing agents.

**Hazardous Combustion or Decomposition Products:** CO2 and CO

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Conditions to Avoid:** None.

### 8. SPILL OR LEAK PROCEDURES

- **Actions to take for Leaks & Spills:** Dike and contain. If uncontaminated, reuse product. If contaminated, absorb spill with clay, sand, or sawdust. Place in a chemical waste container for proper disposal. Spill area will be quite slippery.

**Waste Disposal Method:** This material must be disposed of according to federal, state, and local procedures under the resource conservation and recovery act.
9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines.

Eye Protection: Use chemical worker's goggles.

Skin Protection: Use impervious rubber gloves. Washing at mealtime and end of shift.

Other Clothing: When splashing is possible, full chemically resistant protective clothing and boots are required.

Other Equipment: 

Engineering Controls: Local and general ventilation is recommended. Keep away from heat sparks and flame.

10. HANDLING AND STORAGE

Special Precautions: Use with adequate ventilation. Avoid eye contact. Do not breathe mist. Keep container closed.

Other Precautions: Use reasonable care and store away from oxidizing materials. Keep away from heat, sparks, and flame. Ground all metal containers during storage and handling.

11. REGULATORY INFORMATION


12. TOXICOLOGICAL INFORMATION

Acute Data: Oral LD50 - rat: 4000 to 8000 mg/kg
LD50 - rabbit: >3000 mg/kg

Reproductive / Teratology Data: Not known

13. ECOLOGICAL INFORMATION

Fate in the Environment: No specific information is available.

14. DISPOSAL CONDITIONS

Procedures: Dispose in accordance with State, Local, and Federal regulations.

15. TRANSPORTATION INFORMATION

DOT Classification: US DOT Hazard Class…….Class 3 (Flammable Liquid)…….Consult CFR 49 Parts 171-177 to determine the appropriate subsidiary hazard class.

Warning Labels: