

# MATERIAL SAFETY DATA SHEET

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EPA National Response Center: 800.424.8802

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## SECTION I: IDENTIFICATION OF PRODUCT

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**Product Name:** Fertizona MSO  
**Product Class:** Surfactant (Adjuvant)  
**Chemical Name and Synonyms:** Liquid mixture of methyl soyate and surfactants.

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## SECTION II: HAZARDOUS INGREDIENTS

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CHEMICAL	CAS NO.
POE Nonylphenol	9016-45-9
Isopropanol	67-63-0

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## SECTION III: EMERGENCY/HAZARDS OVERVIEW

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Light yellow liquid with oil odor. Avoid contact with strong oxidizers such as hydrogen peroxide, bromine and chromic acid. Burning may result in formation of carbon oxides. Not a D.O.T. regulated hazardous material.

**HEALTH:** 1    **REACTIVITY:** 0    **FLAMMABILITY:** 0    **ENVIRONMENT:** 0  
( 0=Insignificant   1=Slight   2=Moderate   3=High   4=Extreme )

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## SECTION IV: PHYSICAL AND CHEMICAL DATA

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<b>Boiling Point:</b> Not Available	<b>Freezing Point:</b> Not Available
<b>% Volatile by Weight:</b> None	<b>pH:</b> Not Available
<b>Vapor Density:</b> Not Available	<b>Vapor Pressure (mm Hg):</b> Not Available
<b>Solubility In Water:</b> Emulsifiable	<b>Evaporation Rate:</b> Not Available
<b>Density:</b> 7.34 lbs/gal	<b>Viscosity:</b> Not Available
<b>Appearance:</b> Light yellow liquid	
<b>Odor:</b> Oil odor	
<b>Octanol/Water Partition Coefficient:</b> Not Available	
<b>Saturated Vapor Concentration:</b> Not Available	

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## SECTION V: FIRE AND EXPLOSION DATA

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**Flash Point:** Not Available  
**LEL Flammable Limits:** Not Pertinent  
**Autoignition Temperature:** Not Pertinent  
**Properties that Initiate/Contribute to Intensity of Fire:** None  
**Potential for Release of Flammable Vapors:** None  
**Potential for Dust Explosion:** None  
**Reactions that Release Flammable Gases or Vapors:** Not Known  
**Unusual Fire & Explosion Hazards:** Burning may result in formation of carbon oxides.  
**Extinguishing Media:** Dry chemical, CO<sub>2</sub>, foam, water spray or fog.  
**Known Hazardous Products of Combustion:** None  
**Special Firefighting Procedures:** Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

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## SECTION VI: REACTIVITY DATA

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**Stability:** Stable  
**Hazardous Polymerization:** Will not occur  
**Conditions To Avoid:** Avoid contact with strong acids, bases or oxidizers.  
**Incompatibility:** Not Available  
**Hazardous Decomposition Products:** Burning may generate carbon monoxide, phenols and possibly other toxic fumes.

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## SECTION VII: HEALTH HAZARD DATA

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### EFFECTS OF OVEREXPOSURE / EMERGENCY AND FIRST AID PROCEDURES

**Eyes:** Wear chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling. If contact occurs, flush eyes immediately with water for at least 15 minutes. Call a physician if irritation persists.  
**Skin:** Wear impervious gloves and clothes. If contact occurs, wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Call a physician if skin becomes irritated.  
**Ingestion:** If conscious and alert, drink water or milk to dilute, then induce vomiting. Call a physician or Poison Control Center Immediately.  
**Respiratory Protection:** Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH- approved dust/mist respirator (3M #8710).  
**Inhalation:** If vapors or mist causes irritation or distress, remove to fresh air and call a physician.  
**Ventilation:** Recommended but no TLV established.

### ACUTE EFFECTS

**Eyes:** Irritant. May cause redness and/or burning  
**Skin:** Mild irritant, especially from prolonged exposure. May cause redness.  
**Ingestion:** Harmful if swallowed. May cause stomach cramps and/or nausea.  
**Inhalation:** None expected but inhalation of aerosol mist may cause mild irritation of nasal mucous membranes.

### SUBCHRONIC EFFECTS

None Known

### CHRONIC EFFECTS

None Known

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## SECTION VIII: SPILL, LEAK, AND DISPOSAL PROCEDURES

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Contain all spills and leaks to prevent discharge into the environment. If spilled, use appropriate absorbent material to absorb the spilled material and flush spilled area with water. Consult local waste regulators for proper disposal.

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## SECTION IX: HANDLING AND STORAGE

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**Storage:** Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not store in contact with brass. Do not store near food or feeds. Do not stack pallets more than two (2) high.

**Transfer Equipment:** Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.

**Work/Hygienic Practices:** May be harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Remove contaminated clothing and wash thoroughly before reuse. Do not contaminate feed or food.

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## SECTION X: D.O.T, REGULATORY, AND GENERAL INFORMATION

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**D.O.T. Shipping Description:** Not D.O.T. Regulated

**Other Shipping Information:** Adhesives, Adjuvants, Spreaders or Stickers, Liquid. NMFC Item 4612, LTL Class 60

**CERCLA:** None

**SARA TITLE III, Section 313 Toxic Chemicals:** None

**PROPOSITION 65 (CA):** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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**MSDS version:** new

**Supersedes:** 04/30/09