

MATERIAL SAFETY DATA SHEET

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SECTION I: IDENTIFICATION OF PRODUCT

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

SECTION II: HAZARDOUS INGREDIENTS

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

SECTION III: EMERGENCY/HAZARDS OVERVIEW

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)

SECTION IV: PHYSICAL AND CHEMICAL DATA

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

SECTION V: FIRE AND EXPLOSION DATA

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, CO₂, 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.

SECTION VI: REACTIVITY DATA

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.

SECTION VII: HEALTH HAZARD DATA

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

SECTION VIII: SPILL, LEAK, AND DISPOSAL PROCEDURES

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.

SECTION IX: HANDLING AND STORAGE

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.

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

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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