

## Material Safety Data Sheet

Ferti-Spread  
Issue Date: 04/04

p. 1

---

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

---

#### CHEMICAL PRODUCT

Ferti-Spread

Common Name: Surfactant (Adjuvant)  
Chemical Description: Liquid mixture of non-ionic surfactants/emulsifiers  
TCSA/CAS No.: Not available

#### MANUFACTURED FOR

Fertilizer Company of Arizona, Inc.  
2850 South Peart Road  
Casa Grande, Arizona 85222

#### Emergency Phone Numbers

Emergency Telephone: 520.836.7477  
CHEMTREC (24-hour Emergency Number): 800.424.9300  
EPA National Response Center: 800.424.8802

---

### SECTION 2. HAZARDOUS INGREDIENTS

---

<u>CHEMICAL</u>	<u>CAS NO.</u>	<u>%</u>	<u>TLV OR PEL</u>	<u>RO (lbs.)</u>
POE Nonylphenols	26027-38-3	20.0	N/A	N/A
Isopropyl Alcohol	67-63-0	1.0	400 ppm (PEL)	N/A

---

### SECTION 3. EMERGENCY/HAZARDS OVERVIEW

---

Slightly viscous, clear liquid. Avoid contact with strong alkalis at high temperatures, acids, oxidizing agents, or materials reactive with hydroxyl compounds. Burning may result in formation of carbon oxides.

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

## Material Safety Data Sheet

Ferti-Spread  
Issue Date: 04/04

p. 2

---

### SECTION 4. FIRST AID

---

Eyes: Immediately flush eyes with large quantities of water for 15 minutes, occasionally lifting the lower and upper lids. Seek medical attention.

Skin: Immediately wash skin with plenty of soap and water while removing contaminated clothing and shoes. If irritation persists, seek medical attention.

Ingestion: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water. If so advised by a physician or Poison Control Center, induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air.

---

### SECTION 5. FIRE AND EXPLOSION HAZARDS

---

Flash Point: >200° F

Test Method: ASTM-D93

LEL Flammable Limits: Not pertinent

UEL Flammable Limits: Not pertinent

Autoignition Temperature: Not pertinent

Flammability Classification:

Known Hazardous Products of Combustion: None

Properties that Initiate/Contribute to Intensity of Fire: None

Potential for Dust Explosion: None

Reactions that Release Flammable Gases or Vapors: Not known

Potential for Release of Flammable Vapors: None

Unusual Fire & Explosion Hazards: Burning may result in formation of carbon oxides.

Extinguishing Media: Foam, CO<sub>2</sub>, dry chemical, water

Special Firefighting Procedures: Wear positive pressure, self-contained breathing apparatus and goggles. Avoid smoke inhalation. Contain any liquid runoff.

---

### SECTION 6. SPILLS AND LEAKS

---

Containment: Prevent product spillage from entering drinking water supplies or streams.

Clean Up: Collect liquid or absorb onto absorbent material and package for disposal.

Evacuation: Not necessary

## Material Safety Data Sheet

Ferti-Spread  
Issue Date: 04/04

p. 3

---

### SECTION 7. STORAGE AND HANDLING

---

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40° F. Keep away from strong alkalis, acids and/or oxidizing agents. 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:	Harmful if swallowed. May cause irritation of eyes, nose, throat and skin. Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Wash thoroughly after handling. Remove contaminated clothing and wash thoroughly before reuse. Do not contaminate feed and foodstuffs. Do not apply this product in such a manner as to directly or through drift expose workers or other persons.

---

### SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

---

Eyes:	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

---

### SECTION 9. PHYSICAL AND CHEMICAL DATA

---

Appearance:	Slightly viscous clear liquid
Odor:	Higher alcohol odor
pH:	6.8
Vapor Pressure:	0.5 (psi)
Vapor Density (Air=1):	>1.0
Boiling Point:	98.9° C (210° F)
Freezing Point:	Not available
Water Solubility:	Miscible
Density:	8.51 lbs./gal.
Evaporation Rate:	Not available
Viscosity:	Not available
% Volatile:	Not available
Octanol/Water Partition Coefficient:	Not available
Saturated Vapor Concentration:	Not available

## Material Safety Data Sheet

Ferti-Spread  
Issue Date: 04/04

p. 4

---

### SECTION 10. STABILITY AND REACTIVITY

---

Stability:	Stable
Conditions to Avoid:	Avoid contact with strong alkalis at high temperatures, acids, oxidizing agents, or materials reactive with hydroxyl compounds.
Incompatibility:	Not available
Hazardous Decomposition Products:	Burning may result in formation of carbon oxides.
Hazardous Polymerization:	Will not occur

---

### SECTION 11. POTENTIAL HEALTH EFFECTS

---

#### Acute Effects:

Eyes:	Mild irritant. Vapors or mist may cause redness and/or burning.
Skin:	Mild irritant, especially from prolonged exposure. Causes redness, drying and cracking.
Ingestion:	LD <sub>50</sub> (Rat) > 5000 kg./mg.
Inhalation:	None expected but aerosol mist may cause mild irritation of nasal mucous membranes.

**Subchronic Effects:** None known

**Chronic Effects:** None known

---

### SECTION 12. ECOLOGICAL INFORMATION

---

Algal/Lemna Growth Inhibition:	Not known
Toxicity to Fish and Invertebrates:	Not known
Toxicity to Plants:	Not known
Toxicity in Birds:	Not known

---

### SECTION 13. DISPOSAL

---

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

USEPA Hazardous Waste Number(s):	Not pertinent
Hazard Code:	Not pertinent
Description of Waste:	This product is not a hazardous waste according to EPA regulation 40 CFR 261.

## Material Safety Data Sheet

Ferti-Spread  
Issue Date: 04/04

p. 5

---

### SECTION 11. TRANSPORTATION

---

#### D.O.T. PROPER SHIPPING DESCRIPTION:

2/2.5 Gal. Combustible Liquid, N.O.S. (Isopropanol), 3, NA  
1993, PG III (No Hazard Labels. Placards required  
if package over 119 gallons) ERG #27

#### OTHER SHIPPING INFORMATION:

Adhesives, Adjuvants, Spreaders or Stickers,  
Liquid. (NMFC Item 4612, LTL Class 60)

---

### SECTION 12. REGULATORY INFORMATION

---

None.

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.