

MATERIAL SAFETY DATA SHEET

NOFOAM® NUTRIENT FOLIAR SOLUTION 0-16-9 Page 1 of 4

Issue Date: 12/99

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

NO FOAM NUTRIENT FOLIAR SOLUTION 0-16-9

CA Reg. No. 1050775-50012

Common Name: Liquid nutrient-buffer.

Chemical Description: Liquid fertilizer/surfactant mixture.

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured By

Creative Marketing & Research

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 431-7390

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
Phosphoric acid	7664-38-2	20.8	*N.A.	5,000
Zinc sulfate	7733-02-0	2.5	N.A.	1,000
POE Nonylphenol	9016-45-9	2.0	N.A.	*N.P.
Ferrous sulfate	7720-78-7	< 1.0	N.A.	1,000
Manganese sulfate	7785-87-7	< 1.0	N.A.	N.P.

* N.A. - Not Available.

* N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear, amber liquid. Slight soapy/phosphoric acid-like odor. Avoid mixing with strong acids, bases or oxidizers. Burning may result in formation of nitrogen oxides. Contain any liquid runoff. D.O.T. corrosive liquid.

HEALTH: 2 REACTIVITY: 1 FLAMMABILITY: 0 ENVIRONMENT: 1

(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: Immediately flush eyes with plenty of water and get 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:	> 350°F
Test Method:	ASTM-D93
LEL Flammable Limits:	Not pertinent.
UEL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	None.
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:	None.
Extinguishing Media:	Dry powder or CO ₂ .
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.

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. 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. The area being treated must be vacated by unprotected 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:	Clear, amber liquid.
Odor:	Slight soapy/phosphoric acid-like odor.
pH:	< 1.5
Vapor Pressure:	0.25 psi
Vapor Density (Air = 1):	> 1.0
Boiling Point:	98.8°C (210°F)
Freezing Point:	Not available.
Water Solubility:	Miscible.
Density:	10.68 lbs./gal.
Evaporation Rate:	Not available.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Contact with strong acids, bases or oxidizers.
Incompatibility:	Not available.
Hazardous Decomposition Products:	Burning may result in formation of nitrogen oxides.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Severe irritant. Causes redness and burning.
Skin:	Irritant, especially from prolonged exposure. Causes redness, drying and cracking.
Ingestion:	May cause stomach cramps and/or nausea.
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 according to 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. Do not discharge.

SECTION 14. TRANSPORTATION**D.O.T. Proper Shipping Description:**

4/1 Gallons -

Corrosive Liquid, N.O.S. (Phosphoric Acid), 8, UN 1760, PG III,
Ltd. Qty.

(No Hazard Labels/Placards Req.) ERG #154.

5 Gallons -

Corrosive Liquid, N.O.S. (Phosphoric Acid), 8, UN 1760, PG III.
(Placards Req. For Loads More Than 1,001 Lbs.) ERG #154.**Other Shipping Description:**

Fertilizing Compounds (Manufactured), Liquid.

NMFC Item 68140 Sub 6, LTL Class 70

SECTION 15. REGULATORY INFORMATION

CERCLA: Iron sulfate, zinc sulfate and phosphoric acid are listed as priority pollutants under the Clean Water Act and, as such, fall under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: Phosphoric acid (20.8%), Manganese compounds (<1.0) and Zinc compounds (2.5%).

PROPOSITION 65 (CA): None.

SECTION 16. OTHER

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.