

MATERIAL SAFETY DATA SHEET

FIRST CHOICE® Nutrient Buffer 11-4-6

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Issue Date:02/01

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

FIRST CHOICE NUTRIENT-BUFFER 11-4-6

Common Name:

Liquid nutrient-buffer.

Chemical Description:

Liquid fertilizer mixture.

TSCA/CAS No.:

Not available.

Manufactured For

Western Farm Service

P. O. Box 1168

Fresno, CA 93715

(559) 438-6133

Emergency Phone Numbers

Emergency Telephone:

CHEMTREC (24-Hour Response): (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>RQ (lbs)</u>
Phosphoric acid	7664-38-2	5.65	3 mg/m ³	5,000
Potassium nitrate	7757-79-1	7.70	N.A.	N.P.
Urea	57-13-6	22.00	N.A.	N.P.

* N.A. - Not available.

* N.P. - Not pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear, amber liquid with slight soapy odor. Irritant to eyes and skin. If ingested, may cause stomach cramps and/or nausea. High temperatures may result in formation of nitrogen oxides. Contain any liquid runoff. Not a D.O.T. hazardous material.

HEALTH: 2

REACTIVITY: 0

FLAMMABILITY: 0

ENVIRONMENT: 0

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

SECTION 4. FIRST AID

Eyes: Flush immediately with large amounts of water for at least 15 minutes. Do not rub eyes. Get immediate medical attention.

Skin: Wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.

Ingestion: If conscious and alert, administer 2 large glasses of water or milk to dilute. Call a physician or Poison Control Center immediately.
Note to Physician: Large doses of nitrates can cause vasodilation and hypotension. Pre-existing ischemic heart disease may be aggravated by these effects. Also, methemoglobinemia should be suspected if cyanosis occurs.

Inhalation: If adverse symptoms are experienced, move to fresh air. If breathing becomes difficult, see a physician.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	>200°F
Test Method:	Not available.
LEL Flammable Limits:	Not pertinent.
UEL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	Not known.
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:	Does not burn.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and goggles. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
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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
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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:	Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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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
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Appearance:	Clear, amber liquid.
Odor:	Slight soapy odor.
pH:	4.4
Vapor Pressure:	Not available.
Vapor Density (Air=1):	>1.0
Boiling Point:	100°C (212°F)
Freezing Point:	Not available.
Water Solubility:	Miscible.
Density:	9.92 lbs./gal.
Evaporation Rate:	<1.0
Viscosity:	Not available.
% Volatile:	Not available.

SECTION 9.	PHYSICAL AND CHEMICAL DATA (Continued)
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Octanol/Water Partition Coefficient:	Not available.
Evaporation Rate:	<1.0
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10.	STABILITY AND REACTIVITY
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Stability:	Stable.
Conditions To Avoid:	Contact with strong alkalis and/or strong reducing or oxidizing agents.
Incompatibility:	Not available.
Hazardous Decomposition Products:	High temperatures may result in formation of nitrogen oxides.
Hazardous Polymerization:	Will not occur.

SECTION 11.	POTENTIAL HEALTH EFFECTS
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<u>Acute Effects:</u>	
Eyes:	Irritant. Causes redness and burning.
Skin:	Irritant, especially from prolonged exposure. Causes redness, drying and cracking of skin.
Ingestion:	May cause stomach cramps and/or nausea.
Inhalation:	None expected but inhalation of aerosol mist may cause mild irritation of nasal mucous membranes.
<u>Subchronic Effects:</u>	None known.
<u>Chronic Effects:</u>	None known.

SECTION 12.	ECOLOGICAL INFORMATION
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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
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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
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D.O.T.:	Not D.O.T. Regulated.
Other Shipping Description:	Fertilizing Compounds (Manufactured), Liquid.
	(NMFC Item 68140 Sub 6, LTL Class 70)

SECTION 15.	REGULATORY INFORMATION
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CERCLA: Phosphoric acid is listed as a priority pollutant under the Clean Water Act and, as such, falls under the CERCLA spill reporting requirements of 40 CFR 302.

SARA TITLE III, Section 313 Toxic Chemicals: Phosphoric acid (5.65%).

SECTION 16.	OTHER
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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.

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