

Material Safety Data Sheet

Ferti-Buff
Issue Date: 09/04

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT

Ferti-Buff 0-8-0

Common Name: 0-8-0
Chemical Description: Nutrient Buffer/Acidifier
TCSA/CAS No.: 7664-38-2

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>
Phosphoric Acid	H ₃ PO ₄	7664-38-2	13	PEL 1 mg/m ³	

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

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

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SECTION 4. FIRST AID

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

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

Ingestion: Call a physician or Poison Control Center. Drink 2 or 3 glasses of milk or water to dilute the acid. Administer milk of magnesia (approx. 20 mls). DO NOT INDUCE VOMITING or give anything by mouth to an unconscious person. Do not leave victim unattended. If vomiting occurs spontaneously, administer fluids repeatedly. Give demulcents, such as milk or beaten eggs at intervals of 1 or 2 hours.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove the victim to fresh air. Seek medical attention if respiratory irritation or distress continues. Support respiration

Antidotes: Treat symptomatically. No specific antidote available.

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	Non-flammable
Test Method:	Not known
LEL Flammable Limits:	Not available
UEL Flammable Limits:	Not available
Autoignition Temperature:	Not applicable
Flammability Classification:	Not known
Known Hazardous Products of Combustion:	Not known
Properties that Initiate/Contribute to Intensity of Fire:	Not known
Potential for Dust Explosion:	Not known
Reactions that Release Flammable Gases or Vapors:	Not known
Potential for Release of Flammable Vapors:	Not known
Unusual Fire & Explosion Hazards:	May react with metal to produce hydrogen.
Extinguishing Media:	Non flammable. Foam, CO ₂ , dry chemical, water, sand/earth
Special Firefighting Procedures:	Avoid exposure of skin and eyes from mists and splashing.

SECTION 6. SPILLS AND LEAKS

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

Clean Up: Wear protective equipment. Absorb with an inert material such as sand, soil or vermiculite; sweep up and dispose in accordance with federal, state, and local regulations. Wash area with water. Collect wash water for disposal.

Evacuation: Not necessary

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SECTION 7. STORAGE AND HANDLING

Storage: Store in tightly closed original labeled containers in a cool, well ventilated, dry place at temperatures above 32° F, but less than 120° F. Keep away from ignition sources and incompatible materials. Do not store near food or feeds. Do not stack pallets more than two (2) high. Practice reasonable care and caution. Keep out of reach of children and animals.

Work/Hygienic Practices: Wash thoroughly after handling. Remove contaminated clothing and wash thoroughly before reuse. Do not contaminate feed and foodstuffs. Avoid breathing mists if generated.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Personal hygiene is important exposure control measure. The following general measures should be taken when working with or handling this material.

Personal Protection: These recommendations provide general guidelines for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.

Eyes: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling. Eyewash fountain and safety shower in area.

Skin: Impervious gloves and clothes. Gloves should be solvent resistant rubber or plastic. Wear a neoprene protective type apron when handling concentrate.

Respiratory: Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/mist respirator (such as 3M #8710).

Ventilation: General room ventilation recommended, but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Dark straw colored liquid
Odor:	Not available
pH:	.72
Specific Gravity (H ₂ O = 1)	Not available
Vapor Pressure:	Not applicable
Vapor Density (Air=1):	Not available
Boiling Point:	Not applicable
Freezing Point:	Not available
Melting Point:	Not available
Water Solubility:	Miscible
Density:	Not available
Evaporation Rate (Butyl Acetate = 1):	Not available
Viscosity:	Not available
% Volatile:	0
Octanol/Water Partition Coefficient:	Not available
Saturated Vapor Concentration:	Not available

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SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Incompatibility: Reacts with alkalis and metals producing heat and hydrogen gas.
Hazardous Decomposition Products: PO_x, H₂, and SO₃
Hazardous Polymerization: Will not occur

SECTION 11. POTENTIAL HEALTH EFFECTS

Acute Effects:

Eyes: Severe aggravation and possible severe burns
Skin: Contact – Aggravation to skin. Prolonged contact may cause burns to the skin.
Absorption -- Acute dermal toxicity (rabbit). LD₅₀: 2740 mg/kg for phosphoric acid. May cause ulceration of the skin.
Ingestion: Not a normal route of entry. Accidental ingestion may cause burns to mouth and throat and may cause gastrointestinal discomfort, vomiting, weakness, or other medical-related problems. Acute oral toxicity (rat). LD₅₀: 1530 mg/kg for phosphoric acid
Inhalation: Inhalation of mist may cause discomfort of the respiratory tract.
Subchronic Effects: None known
Chronic Effects: None known
Affects of Overdose: Nausea, vomiting and abdominal pains, diarrheand acidosis. Aggravating to respiratory tract. **MAY CAUSE SEVERE ABRASIONS AND BURNS ON EYES.** Aggravation and skin burns with prolonged contact.

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. Triple rinse containers and utilize rinsate according to label using good agronomic practices. 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.

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SECTION 14. TRANSPORTATION

Shipping Name:	Phosphoric Acid, 8, UN1805, P.G. III
Hazard Class:	8
Reportable Quantity (RQ):	5000 lbs.
Labels Required:	Corrosive
Placard:	Corrosive
CAS Number:	7664-38-2
DOT Number:	UN1805
Hazardous Waste Number:	None
EPA Registration Number:	None

SECTION 15. REGULATORY INFORMATION

Carcinogenicity:	<u>by IARC?</u>	<u>By NTP?</u>
	No	No

This product contains Phosphoric Acid, CAS No. 7664-38-2, which is subject to the reporting requirements of Section 313 of Title III of the Superfund and Reauthorization Act of 1986 and 40 CFR Part 372.

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.