
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT

1.1 Product Identifier/Trade Name: Ferti-Buff 0-8-0

1.2 Recommended Use: Acidifier
 Common Name: 0-8-0
 Chemical Description: Nutrient Buffer/Acidifier
 Recommended Restrictions: Refer to product label
 TCSA/CAS No.: 7664-38-2

Manufacturer/Importer/Supplier/Distributor information Manufacturer

1.3 Supplier Details:
 Fertilizer Company of Arizona, Inc.
 2850 South Peart Road
 Casa Grande, Arizona 85193-9024

1.4 Emergency Phone Numbers

Emergency Telephone: 520.836.7477
 Riverside Environmental Services, Inc. (24-hour Emergency Number): 928.783.3803
 EPA National Response Center: 800.424.8802

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture according to 29 CFR 1910.1200

Physical Hazards	Not classified	
Health Hazards		
Skin Corrosion/Irritation	Category 2	H315
Eye Irritation	Category 1	H318
Environmental Hazards	Not classified	

2.2 Label Elements



Signal Word: Danger
 Hazard Statement: H318 Causes serious eye damage
 H315 Causes skin irritation

Precautionary Statements: Do not breathe mist, vapor or spray. Wash hands thoroughly after handling.
 If swallowed: Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell. If on skin: Take off all contaminated clothing. Rinse skin with water/shower.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call Poison Control Center or Doctor if you feel unwell

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Storage: Store locked up. Store away from incompatible materials. Keep out of reach of children.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): None known.

Supplemental Information: None.

KEEP OUT OF REACH OF CHILDREN

Route of exposure:	Eye contact, skin contact, inhalation. Avoid breathing spray mist
Eyes	Causes serious eye damage
Skin	Causes skin irritation
Ingestion	May be irritating to mouth, throat, and stomach
Inhalation	May be irritating to respiratory system
Target organs	Eyes, Skin, Inhalation

SECTION 3. COMPOSITION, INFORMATION ON 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	15-16	PEL 1 mg/m ³	
Water	H ₂ O	7732-18-5	84-85*		

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Skin: Immediately wash skin with plenty of water while removing all contaminated clothing and shoes. Wash off with soap and water. If irritation persists, call a physician. Wash contaminated clothing and shoes before reuse.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. 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, keep head low so that stomach content doesn't get into the lungs and 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, move to fresh air. Call a physician if symptoms develop or persist.

Most important symptoms/effects, acute and delayed:
Causes serious eye damage. Symptoms may include stinging, tearing, redness, and blurred vision.

General Information: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Antidotes: Treat symptomatically. No specific antidote available.

Notes to Physician: All treatments should be based on observed signs and symptoms of distress

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in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water fog. Foam. Dry chemical powder. Sand/earth. Carbon dioxide (CO ₂).
Unsuitable extinguishing media:	None none.
Specific hazards arising from the chemical:	May react with metal to produce hydrogen
Special protective equipment and precautions for firefighters:	Avoid exposure of skin and eyes from mists and splashing.
Fire-fighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	No unusual fire or explosion hazards noted.
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

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

SECTION 7. STORAGE AND HANDLING

- 7.1 Storage: Store locked up 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.
- 7.2 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.
- 7.3 Precautions for Safe Handling: Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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 PROPERTIES

Appearance:	Dark straw colored liquid
Odor:	Slight
pH:	.72
Specific Gravity (H ₂ O = 1)	1.05 g/ml
Vapor Pressure:	Not applicable
Vapor Density (Air=1):	Not available
Boiling Point:	212° F 100° C
Freezing Point:	Not available
Melting Point:	Not available
Water Solubility:	Miscible
Density:	10.3 lbs/gal
Evaporation Rate (Butyl Acetate = 1):	Not available
Viscosity:	Not available
% Volatile:	0
Octanol/Water Partition Coefficient:	Not available
Saturated Vapor Concentration:	Not available

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Reacts with alkalies and metals producing heat and hydrogen gas.
Hazardous Decomposition Products:	PO _x , H ₂ , and SO ₃
Hazardous Polymerization:	Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Effects:

Eyes:	Severe aggravation and possible severe burns
Skin:	Contact – Aggravation to skin. Prolonged contact may cause burns

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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 CONSIDERATIONS

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 SDS. Therefore, consult local waste regulators for proper disposal.

SECTION 14. TRANSPORTATION

14.1 LAND TRANSPORT

DOT Shipping Name:	UN 1805, PHOSPHORIC ACID SOLUTION, 8 PG III
U.S. Surface Freight Classification:	Acids, Phosphoric (NMFC 4440, Sub 3, Class 70)

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 Reauthorizaiton Act of 1986 and 40 CFR Part 372.

Reportable Quantity (RQ) under U.S. CERCLA: Phosphoric Acid (CAS 7644-38-2) 5,000 lbs.
CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65 (CA): WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

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

Disclaimer: This safety data sheet was developed from information on the constituent materials identified and does not relate to use in combination with other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty, or guarantee is made as to its accuracy, reliability or completeness. No warranty of merchantability, fitness for any particular purpose, or any other warranty, expressed or implied, is made concerning the information herein provided. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose. 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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