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WESTERN

FARM SERVICE

The Best People.
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MATERIAL SAFETY DATA SHEET NO. 114

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Ammonium Ortho Phosphate
Chemical Name None
Common Name, Synonyms Ammonium phosphate solution
MANUFACTURER Western Farm Service, Inc.
EMERGENCY TELEPHONE NUMBERS Information (209) 436-0450 8am-5pm PST M-F
CHEMTREC (800) 424-9300 24 hours every day

2. COMPOSITION/INFORMATION ON INGREDIENTS

Nutrients derived from the following INGREDIENTS

Chemical Name	CAS #	Weight %
Ammonium phosphate	10361-65-6	Weight percent will
Water	7732-18-5	vary by grade

Refer to Section 8 for exposure guidelines

Material Safety Data Sheet No. 114 applies to all grades of ammonium phosphate solution made from the ingredients listed above

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, light green liquid. No odor

Corrosive irritant to eyes, skin, mucous membranes. Irritating to respiratory system. Can cause corrosion of mouth, esophagus, and digestive tract

OSHA HAZARD CATEGORY - CORROSIVE

CERCLA RATINGS (SCALE 0-3)

HEALTH = 2 FIRE = 0 REACTIVITY = 1 PERSISTENCE = 0

3. HAZARDS IDENTIFICATION (con't)

PRIMARY ROUTE(S) OF ENTRY

Skin or eye contact is the most likely exposure. Ingestion is possible. Inhalation of fertilizer solutions is unlikely unless unusual conditions of use result in aerosol production.

TARGET ORGANS Skin, eyes, mucous membranes

POTENTIAL HEALTH EFFECTS

Eyes Can cause irritation or burns

Skin Can cause irritation. May result in pain and skin rash or burns

Inhalation Irritating to mucous membranes, respiratory system. May cause throat irritation, coughing, or difficulty in breathing

Ingestion Can cause corrosion of mouth, esophagus, and digestive tract; nausea, vomiting, and stomach pain

SYMPTOMS OF OVEREXPOSURE

Acute Ingestion of some phosphates may cause a shock-like state, a fall in blood pressure, slow pulse, bluish skin color (cyanosis), coma, and painful muscular spasms (tetany). Other symptoms such as convulsion may result from ingestion of large amounts of this liquid.

Chronic No data found

Notes to Physician In the case of inhalation, keep under medical supervision until there is no risk of acute pulmonary edema or microbial infection. Persons with chronic respiratory or skin disease may be at increased risk from exposure

4. FIRST AID MEASURES

Eyes Flush gently but thoroughly for 15 minutes with large amounts of clean water, occasionally lifting upper and lower lids. Seek medical attention immediately.

4. FIRST AID MEASURES (con't)

Skin Quickly remove contaminated clothing and shoes. Wash affected area thoroughly with soap and water. Affected areas may be dusted with powdered sodium bicarbonate (baking soda) and washed again with soap and water. Seek medical attention immediately. Wash or clean contaminated clothing and shoes before wearing again.

Inhalation Remove to fresh air and seek medical attention immediately. If breathing has stopped, start artificial respiration.

Ingestion DO NOT induce vomiting. If person is conscious, give milk, milk of magnesia, or vegetable oil to drink. Do not force an unconscious person to drink. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION DATA

Flashpoint Not flammable
Flammable Limits Not flammable

Ammonia may evolve from this solution at high temperatures. Flammable limits of ammonia gas in air (by volume) are Lower 16%, Upper 25%.

Autoignition Temperature Not applicable
Extinguishing Media Water

Fertilizer solutions will not burn. Fire can evaporate product to dryness leaving crystals of ammonium phosphate.

SPECIAL FIRE FIGHTING PROCEDURES

Fire fighting procedures are based on escaping ammonia gases. Wear full protective clothing and self-contained breathing apparatus. Apply water spray to knock down and absorb ammonia vapors. Keep all personnel upwind of fire. Control runoff waters.

UNUSUAL FIRE AND EXPLOSION HAZARDS

At high temperatures this solution may release toxic fumes of ammonia, fluorides, nitrogen and phosphorus oxides.

NFPA RATING (SCALE 0-4) None established for this solution

6. ACCIDENTAL RELEASE MEASURES

Ammonium ortho phosphate solutions are plant foods. However, large spills could possibly damage vegetation or cause illness in animals. Contamination of waterways could possibly cause fish kills. Dike spill area to prevent spread and runoff into storm sewers and ditches that lead to waterways. Neutralize spill with agricultural lime or crushed limestone. Keep children and animals away from spills.

7. HANDLING AND STORAGE

Hygienic Practices It is advisable to wash promptly if skin becomes contaminated, before eating or smoking, before using toilet facilities, and at the end of the work shift before leaving worksite.

Storage Store in cool, well-ventilated areas at temperatures below 15. F (65.0 C). Avoid mild steel containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits No exposure limits have been set for this solution.

Ventilation None required under normal conditions.

Eyes Wear chemical protective goggles during all handling operations.

Skin Wear rubber or neoprene gloves for all handling operations. Wear rubber apron and boots for transfer operations and where contact is likely. If irritation occurs, impervious clothing and gloves should be worn.

Respiratory None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES (for the typical grade 2.5 - 29.0 - 0)

Boiling Point	211 F (100 C)
Freezing Point	<11 F (-10.0 C)
Vapor Pressure	Not known
Vapor Density	Not known
Percent Volatile (by Volume)	Not applicable
Evaporation Rate	Not known
Solubility in Water	Complete
pH	1.25 - 1.70
Salt-out Temperature	<11 F (-10.0 C)
Specific Gravity (T ₀ =1)	1.310 - 1.320 @ 61 F (2. C)
Appearance and Odor	Clear, light green liquid. No odor

10. STABILITY AND REACTIVITY

Stability	Stable
Hazardous Polymerization	Not known to occur
Incompatibility	Ingredients incompatible with strong alkalies, nitromethane, sodium tetrahydroborate, metals except certain stainless steels.
Hazardous Decomposition Products	At high temperatures may release toxic fumes of ammonia, fluorides, nitrogen and phosphorus oxides.
Conditions to Avoid	Avoid temperatures above 15. F (65.0 C) Avoid mild steel containers.

Do not mix with products containing calcium (such as calcium nitrate or CAN-17). Mixing will produce a precipitate, calcium phosphate, at pH 5.0 or above.

11. TOXICOLOGICAL INFORMATION

No data found

POTENTIAL CARCINOGEN DATA (IARC, NTP, OSHA)

None found for this solution

FOR HEALTH EMERGENCIES CALL YOUR LOCAL POISON CENTER

12. ECOLOGICAL INFORMATION

No data found

Ammonium ortho phosphate solutions are plant foods. However, large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into storm sewers and ditches that lead to waterways.

13. DISPOSAL CONSIDERATIONS

If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations.

This substance meets the RCRA definition of hazardous waste. California prohibits land disposal for hazardous wastes with pH less than or equal to 2.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name Corrosive liquids, N.O.S
Dot Hazard Class 8
UN/NA No. UN1760
Packaging Group III
ERG No. 60
Label/Placard Required CORROSIVE

FOR TRANSPORTATION EMERGENCIES CALL CHEMTREC 1-800-424-9300

15. REGULATORY INFORMATION

Reportable Quantity - CERCLA None established
SARA Title III (EPCRA) None established

EPA NATIONAL RESPONSE CENTER 1-800-424-8802

16. OTHER INFORMATION

DATE PREPARED October 11, 1995
NAME OF RESPONSIBLE PARTY Western Farm Service, Inc.
P.O. Box 1168
Fresno, California 93715
(209) 436-0450

NOTICE

All information appearing in this document is based on data provided by third party sources and is 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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