

AGRISOLUTIONS

**Ammonium Polyphosphate Solution**

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident,  
**CALL CHEMTREC – Day or Night 1-800-424-9300** or 1-800-228-5635

---

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: 10-34-00 Liquid Fertilizer  
Synonyms: Ammonium Polyphosphate Solution  
Company ID: Agriliance, LLC  
PO Box 64089  
St. Paul, MN 55164-0089  
Phone #s: Emergency Phone Number - CHEMTREC (day or night): 1-800-424-9300  
For Medical Emergency - Call 1-877-424-7452  
Date: 07/01/03 Supersedes: New

**2. COMPOSITION INFORMATION ON INGREDIENTS**

<u>Component</u>	<u>CAS Reg. No.</u>
Ammonium polyphosphate	68333-79-9
Water	7732-18-5
Typical N-P-K Composition	
Total Nitrogen as N	10%
Total Phosphorus as P <sub>2</sub> O <sub>5</sub>	34%
Total Potassium	0%
Fertilizer salts, inert ingredients	56%

**See Section 8 for Personal Protection Limits (PPE).**

**3. HAZARDS IDENTIFICATION**Emergency Overview:

Appearance & Odor: Dark green clear liquid with slight ammonia odor.

Warning Statements: This is a liquid fertilizer product and we should avoid extreme temperatures. Not generally harmful if swallowed. May cause aggravation of the eyes. May cause local discomfort if skin with cuts is exposed.

Potential Adverse Health Effects:

Eye Contact: Low eye aggravation.  
Skin Contact: Low skin Irritation potential.  
Ingestion: Not generally considered hazardous as all constituents are used as food additives.  
Inhalation: Low problem under normal conditions, if difficulty in breathing, remove to fresh air.

**4. FIRST AID MEASURES**

If in Eyes: Flush with cool water for 15 minutes. Remove contact lenses, if applicable and continue flushing for 15 minutes. Hold eyelids apart to rinse the entire surface of the eyes and lids. Seek medical attention if irritation persists.  
If on Skin: Wash skin with soap and water. Obtain medical attention if irritation persists.  
If Swallowed: Induce vomiting after the victim drinks 1 to 2 glasses of water. Never give anything to a person who is unconscious. Obtain medical attention.  
If Inhaled: Remove to fresh air. If not breathing, call 9-1-1 and provide mouth-to-mouth resuscitation. Seek medical help if breathing is difficult.

## AGRISOLUTIONS

## Ammonium Polyphosphate Solution

**5. FIRE FIGHTING MEASURES**

Flash Point: Non-flammable. Flammable Limits: Not established.

Extinguishing Media: Considered non-combustible, use medium appropriate to surrounding fire, water spray or fog, foam, carbon dioxide or dry chemical.

Special Fire Fighting Procedures: Provide for the protection of the employees and residents: Notify local authorities that firemen should wear self-contained breathing apparatus with full protecting clothing, be immediately relieved from duty, if exposed to contaminated smoke which may include and are not limited to oxides of nitrogen and phosphorus; and ammonia when heated to decomposition. See section 11 for toxicological data.

**6. ACCIDENTAL RELEASE MEASURES**In Case of Spill or Leak

For small spills, absorb in sand or kitty litter or other absorbent, then sweep up and use as a fertilizer by applying to soil using good agricultural and soil management.

For large spill on roadside, avoid contamination of water ways as this liquid fertilizer will increase algae formation, use diking to keep the spill in the ditch. Use loader to remove fertilizer and soil and apply the mixture as a fertilizer using good agricultural and soil management. Replace removed soil and leave as it was before the large spill.

**7. HANDLING AND STORAGE**

Protect from excessive heat. Avoid using containers, pipes and fittings made of zinc-clad or copper bearing alloys. Store in a cool, dry place away from children, food, feed and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal Protective Equipment:]

Eye Protection: Safety glasses or chemical splash-proof goggles.

Skin Contact: To avoid skin contact, wear normal working clothing such as coveralls or long-sleeved shirt, long pants and boots.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washing, use detergent and hot water. Keep and wash PPE separately from other laundry.

Respiratory Protection: None required under normal operating conditions.

Ventilation Protection: Provide adequate ventilation.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Dark green liquid. Odor: Slight ammonia odor.

Solubility: Complete in water

Specific gravity: 1.40 to 1.44 @ 60°F Bulk Density: 11.68 lbs/gal

pH: 5.9-6.1

Salt out temperature: 10°F

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**10. STABILITY AND REACTIVITY**

Chemical Stability:

Stable

## AGRISOLUTIONS

## Ammonium Polyphosphate Solution

Conditions to Avoid:

Excessive heat.

Materials to avoid:

Zinc-clad and copper bearing alloys

Hazardous Decomposition Products:

Oxides of nitrogen, phosphorus, and ammonia will be formed when heated to decomposition.

**11. TOXICOLOGICAL INFORMATION****Routes of entry:** Eye, skin contact, inhalation and ingestion.

Eye Irritation: Low

Skin Irritation: Slight potential

Acute Oral LD<sub>50</sub> (rat): >2000 mg/kgAcute Dermal LD<sub>50</sub>(rat): >5000 mg/kg

Carcinogenicity: Not by NTP or IARC.

**12. ECOLOGICAL INFORMATION**

Acute aquatic toxicity: Fish 96-hour (rainbow trout) is greater than 101 mg/L not toxic to aquatic organisms.

Liquid fertilizer discharges Into waterways can cause over nitrification and algae blooms.

**13. DISPOSAL CONSIDERATIONS**Steps to be taken if material is released or spilled

Wear proper PPE found in section 8. Contain, absorb and maximize recovery.

Precautions to be taken in handling and storing

Protect from excessive heat. Store in a cool dry place away from water, food and feed.

**14. TRANSPORTATION INFORMATION**

Follow the precautions indicated in the Handling and Storage Section, Section 7 of this MSDS.

DOT Classification: Not regulated by US DOT

Reportable Quantity: None

**15. REGULATORY INFORMATION**

SARA Hazard Notification/Reporting

Immediate Y Fire N Sudden Release of Pressure N  
Delayed N Reactive N

SARA Title 313, Toxic chemicals: None

Section 302-304 (30 CFR 350): None

Extremely hazardous substance (EHS): None

SARA/OSHA Hazardous chemical reporting quantity: None.

RCRA Hazardous waste: None

16. OTHER

Reasons for revision: New ANSI Format.

National Fire Protection Association (NFPA)  
Hazardous Materials Identification System (HMIS)

NFPA		HMIS	
	0 Least		
1 Health	1 Slight	1	Health
0 Flammability	2 Moderate	0	Flammability
- 0 Instability	3 High	0	Reactivity
	4 Severe	D	PPE

Prepared by: Dennis E. Belau

Reviewed by: Kip Landwehr

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, Agrilience, LLC makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Agrilience, LLC Company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.