

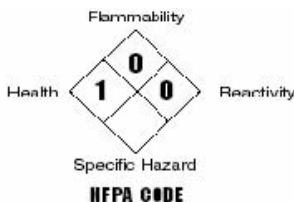
# Material Safety Data Sheet

Revised October 26, 2006

## Section I - Chemical Product and Company Identification

Product Name: **Ammonium Polyphosphate Solution**

**Ouachita Fertilizer Company, LLC**  
**P O Box 4540**  
**Monroe, Louisiana 71203**  
**Phone: 318-388-0400**  
**800-325-7204**



Emergencies (800) 424-9300 (CHEMTREC)

Web Site [www.abellfertilizer.com](http://www.abellfertilizer.com) Health Emergencies, Contact Your Local Poison Center

Common Name: Ammonium Polyphosphate Solution Formula: Mixture Synonym: 10-34-0; 11-37-0 Use: Agricultural, Animal Feed, Industrial

## Section II - Composition/Information On Ingredients

CHEMICAL NAME(s)	CAS No.	Exposure Limits						% by Weight	
		OSHA PEL		TLV - TWA		STEL		ceiling	
		mg/m <sup>3</sup>	ppm	Mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
Ammonium Polyphosphate Solution	68333-79-9								
Total Phosphate as P <sub>2</sub> O <sub>5</sub>									34-37
Nitrogen, as N									10-11
Ammonium Sulfate	7783-20-2								2

## Section III - Hazard Identification

**Potential Acute Health Effects:** No potential chronic health effects known.  
**Eyes and Skin:** Eyes: Low eye irritation potential (pH 5.7 to 6.2). Skin: Low skin irritation potential (pH 5.7 to 6.2).

**Inhalation:** If misty condition prevails, may irritate.

**Ingestion:** Large doses of ammonium salts may induce diarrhea and diuresis. Low oral toxicity.

**Potential Chronic Health Effects:** No potential chronic health effects known.  
**Carcinogenicity**

**Lists:** IA      **RC Monograph:** No      **NTP:** No      **OSHA :** No

## Section IV - First Aid Measures

**Eyes:** Flush eyes immediately and thoroughly with water for at least 15 minutes. If irritation persists, get prompt medical attention.  
**Skin:** Flush immediately and thoroughly with water. If irritation persists, get prompt medical attention.

**Ingestion:** If conscious, immediately give large quantities of water and induce vomiting. Consult a physician promptly.

**Inhalation:** Generally not considered an inhalation hazard.

### Section V - Fire Fighting Measures

**Flash Point:** Non-flammable      **Autoignition Temperature:** None  
**Lower Explosive Limit:** None      **Upper Explosive Limit:** None

**Unusual Fire and Explosion Hazards:** When heated, it may give off ammonia fumes. (This material is a fire retardant.)  
**Extinguishing:** This solution is essentially nonflammable. If involved in a fire, use water. All standard agents are acceptable. **Media:** (water, dry chemical, Carbon Dioxide, halon and foam).  
**Special Firefighting:** Due to possible evolution of ammonia, wear self-contained breathing apparatus approved by NIOSH. Use water.  
**Procedures and Equipment:** spray to keep containers cool.

### Section VI - Accidental Release Measures

**Small Spill:** Contain spills and maximize recovery. Mop up or pump up promptly into metal or plastic drum. (Caution should be exercised in the area of spilled material since solution can cause a slippery condition.)

**Large Spill:** Contain spill with dikes and transfer the material to appropriate containers for reclamation or disposal.

**Release Notes:** If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number 800-424-8802. In case of accident or road spill notify: CHEMTREC IN USA at 800-424-9300; CANUTEC in Canada at 613-9966666 CHEMTREC in other countries at(International code)+1-703-527-3887.

**Comments:** See Section XIII for disposal information and Section XV for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

### Section VII - Handling and Storage

**Ventilation:** Unless heated to evolve ammonia or misted by heat, agitation or spraying, natural ventilation should be adequate.

**Handling:** Avoid breathing mist, if any should be formed. Minimize contact of liquid with eyes, skin and clothing. Use good personal hygiene and housekeeping.

**Storage:** Avoid using containers, pipes and fittings made of zinc-clad, copper-bearing alloys or aluminum. Storage in open containers may result in formation of an ammonium polyphosphate solid on walls. Protect from physical damage. Aluminum tanks not recommended because of possible pitting.

### Section VIII - Exposure Controls/Personal Protection

**Engineering Controls:** Avoid high dust concentration and provide ventilation where necessary.

**PERSONAL PROTECTION:**

**Eye Protection:** Wear chemical goggles when eye contact is possible.

**Protective Clothing:** Wear suitable gloves when handling this product over long periods. If skin irritation occurs, wear long sleeves.

**Respiratory Protection:** Wear NIOSH approved respiratory protective equipment when workplace conditions warrant use of a respirator.

**Protection:**

**Other Protective Clothing or Equipment:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### Section IX - Physical and Chemical Properties

**Appearance/Color/Odor:** Clear, dark green liquid with ammonia odor

**Melting Point/Range:** Not Available

**Solubility in Water:** Miscible

**Specific Gravity:** 1.4 @ 74°F

**Vapor Density:** Not Applicable

**Bulk Density:** 12 lbs/gal 229 ((NH<sub>4</sub>)<sub>3</sub>HP<sub>2</sub>O<sub>7</sub>)

**Viscosity:** 70 cp @ 65 F (POLY11)%

**Evaporation Rate:** Not Applicable

**Boiling Point:** Loses water at 212°F

**Boiling Point Range:** Not Available

**Vapor Pressure(mmHg):** Not Available

**Molecular Weight:** 132 ((NH<sub>4</sub>)<sub>2</sub>HPO<sub>4</sub>)

**pH:** 6 343 ((NH<sub>4</sub>)<sub>5</sub>P<sub>3</sub>O<sub>10</sub>)

**Volatiles:** Not Applicable

### Section XI – Stability and Reactivity

**Stability:** This product is stable under normal ambient conditions of temperature and pressure.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** High temperatures

**Materials to Avoid** Zinc clad, copper bearing alloys and aluminum. Water reactive materials.

**(Incompatibilities):**

**Hazardous Decomposition** Ammonia

**Products:**

### Section XI - Toxicological Information

**Significant Routes** Eyes, Skin, Respiratory System, Digestive Tract

**of Exposure:**

**Toxicity to Animals:** Low to very low toxicity based on the standard Federal Insecticide Fungicide and Rodenticide Act (FIFRA) ratings for mammals.

**Acute Oral Toxicity:** (Rat) OECD Guideline 425: LD<sub>50</sub> > 2,000 mg/kg bw.

**Acute Inhalation Toxicity:** No data

**Acute Toxicity: Other Routes:** No data

**Acute Dermal Toxicity:** (Rat) OECD Guideline 402: LD<sub>50</sub> > 5,000 mg/kg bw.

**Repeated Dose Toxicity:** No data

**Eye Irritation/Corrosion:** No data

**Skin Irritation/Corrosion:** No data

**Special Remarks on** **Developmental Toxicity/Teratogenicity:** No data

**Toxicity to Animals:** **Bacterial Genetic Toxicity In-Vitro: Gene Mutation:** No data **Non-Bacterial Genetic Toxicity In-Vitro: Chromosomal**

**Aberration:** No data **Toxicity to Reproduction:** No data **Carcinogenicity:** No data

**Section XII - Ecological Information**

**Ecotoxicity:** Slightly toxic to practically non-toxic to aquatic organisms based on the Federal Insecticide Fungicide and Rodenticide Act (FIFRA) acute toxicity ratings.  
**Acute Toxicity to Fish:** (*Oncorhynchus mykiss*) 96-hr: LC<sub>50</sub> = > 101 mg/L  
**Chronic Toxicity to Fish:** No data  
**Acute Toxicity to Aquatic Invertebrates:** No data  
**Toxicity to Aquatic Plants:** No data  
**Toxicity to Bacteria:** No data  
**Toxicity to Soil Dwelling Organisms:** No data  
**Toxicity to Terrestrial Plants:** No data

**Environmental Fate:** **Stability in Water:** Stable  
**Stability in Soil:** Behave as salts.  
**Transport and distribution:** No data

**Degradation** **Biodegradation:** The Phosphorus cycle is well understood.

**Products:** **Photodegradation:** No data

**Section XIII - Disposal Considerations**

**Product Disposal:** Disposer must comply with disposal and discharge laws. Disposal of solution may be subject to federal, state and local regulations. Users of this product should review their operations in terms of applicable, state and local laws and regulations, then consult with appropriate regulatory agencies before discharging or disposing of waste material.

**General Comments:** None

<b>Section XIV - Transportation Information</b>		
	<b>USDOT</b>	<b>TDG - Canada</b>
<b>Proper Shipping Name:</b>	Not regulated	Not regulated
<b>Hazard Class:</b>		
<b>Identification Number:</b>		
<b>Packing Group (Technical Name):</b>		
<b>Labeling / Placarding:</b>		
<b>Authorized Packaging:</b>		

**Notes:** Ammonium polyphosphate solution is classified by the USCG as an NLS under 33 CFR 154 per reference 46 CFR 153 ( and Marpol).

**Section XV - Regulatory Information**

**UNITED STATES**

**SARA Hazard**

This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

**Category:**

**Pressure**

**Fire:** No    **Generating:** No    **Reactivity:** No    **Acute:** Yes    **Chronic:** No

**40 CFR Part 355 - Extremely Hazardous Substances:** None

**40 CFR Part 370 - Hazardous Chemical Reporting:** Applicable

**All intentional ingredients listed on the TSCA inventory.**

**SARA Title II I** This product contains the following substances subject to the reporting requirements of Title III (EPCRA) of **Information:** the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Chemical	CAS No	Percent by Weight	CERCLA RQ (lbs)	SARA (1986) Reporting		
				311	312	313
Ammonium Polyphosphate Solution, as P2O5	68333-79-9	34-37		yes	yes	no
Ammonium Sulfate	7783-20-2	2		yes	yes	no

**CERCLA/ Superfund**

**40 CFR Parts 117, 302:**

If this product contains components subject to substances designated as CERCLA Reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington D.C. (1-800-4248802) is required.

**Section XVI - Other Information**

**NFPA Hazard Ratings:**

**Health:** 1                      **Fire:** 0                      **Reactivity:** 0                      **Special Hazards:**

**0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme**

**Comments:**

This product is TSE/BSE (Transmissible Spongiform Encephalopathy/Bovine Spongiform Encephalopathy) free. There are no animal constituents used in the manufacture of Ammonium Polyphosphate Solution for PCS Sales (USA) Inc. Our product is created through a chemical process.

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