

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

CROP PRODUCTION SERVICES, INC.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-866-944-8565  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** 10-34-0 AMMONIUM POLYPHOSPHATE  
**CHEMICAL NAME:** Ammonium Polyphosphate:  $(\text{NH}_4)_3\text{HP}_2\text{O}_7 + \text{NH}_4\text{H}_2\text{PO}_4$   
**CHEMICAL FAMILY:** Ammonium salt  
**EPA REG. NO.:** not applicable  
**MSDS Number:** 7045882-10-CPS

**MSDS Revisions:** All sections reviewed

**Date of Issue:** 05/18/10

**Supersedes:** 06/30/08

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN - CAUTION** - May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, or sores. In case of contact, flush with water. Get medical attention for eyes. This liquid fertilizer is a reaction product of wet-process superphosphoric acid, anhydrous ammonia, and water. Nausea and vomiting could be expected upon large dose ingestion. The acute ingestive effects are described as nausea, chills, and diarrhea. Eye or skin contact with these products could cause irritation (particularly in sensitive persons), and respiratory irritation could be expected from the unprotected inhalation of fertilizer mists. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

This product is a clear green liquid with slight odor. Primary routes of entry are Inhalation, eye contact and skin contact.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Total Nitrogen (N) (Ammonium Polyphosphate)	10.00	68333-79-9	not established
Available Phosphate ( $\text{P}_2\text{O}_5$ ) (Polyphosphate ~ 70%) (Orthophosphate ~ 34%)	34.00	Mixture	not established
Fertilizer salts and inert ingredients	56.00		

## 4. FIRST AID MEASURES

**If in eyes:** Flush eyes with clean running water for at least 15 minutes. If irritation persists, get medical attention.  
**If on skin:** Remove contaminated clothing. Wash Thoroughly with soap and water. If irritation persists, or if rash develops, get medical attention.  
**If swallowed:** If conscious, drink 1 or 2 glasses of water. Get medical attention. Never induce vomiting or give anything by mouth to an unconscious person.  
**If Inhaled:** Remove to fresh air. If irritation persists, get medical attention.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** Not applicable  
**FLAMMABLE LIMITS (LFL & UFL):** Not applicable  
**EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** May include but are not limited to oxides of carbon, oxides of nitrogen, oxides of ammonia, and oxides of phosphorus.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Wear self-contained breathing apparatus and full protective gear.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Flammable and/or toxic gases may form at temperatures above 212°F / 100°C due to thermal decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Avoid breathing mists. Absorb and sweep up spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, state and federal regulations for proper disposal.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

**HANDLING:** Avoid breathing fertilizer mists. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after using this product and before eating, drinking, chewing gum, using tobacco or using the toilet.  
**STORAGE:** Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well-ventilated area, preferably in a locked storage area away from children, feed, and food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not normally required.  
**RESPIRATORY PROTECTION:** Not normally required, if vapors or mists exceed acceptable levels, wear a MSHA/NIOSH approved respirator.  
**EYE PROTECTION:** Chemical goggles or shielded safety glasses.  
**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

**OSHA PEL 8 hr TWA**                      **ACGIH TLV-TWA**

No listings

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Clear green liquid with slight odor  
**SPECIFIC GRAVITY (Water = 1):** 1.4 g/ml  
**VAPOR PRESSURE:** Not established  
**PERCENT VOLATILE (by volume):** Not established  
**BULK DENSITY:** 11.7 lbs/gal.  
**BOILING POINT:** >100°C / >212°F  
**EVAPORATION RATE:** Not established  
**SOLUBILITY:** Soluble  
**pH:** 6.0 – 6.5

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**

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** High temperatures.  
**INCOMPATIBILITY:** Incompatible with copper alloys, corrosive to brass, corrosive to ferrous metals and alloys.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, oxides of nitrogen, oxides of ammonia, and oxides of phosphorus. Flammable and/or toxic gases may form at temperatures above 212°F / 100°C due to thermal decomposition.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (rat):** >2000 mg/kg (OECD 425 protocol)\*  
**Eye Irritation (rabbit):** May irritate eyes  
**Inhalation LC<sub>50</sub> (rat):** Not established.  
**Carcinogenic Potential:** None listed in OSHA, NTP, IARC or ACGIH

**Acute Dermal LD<sub>50</sub> (rat):** >5000 mg/kg (OECD 402 protocol)\*  
**Skin Irritation (rabbit):** May irritate skin  
**Skin Sensitization (guinea pig):** Not established

**12. ECOLOGICAL INFORMATION**

Drift or runoff may adversely affect non-target plants. Do not apply directly to water. May be harmful to fish, livestock, and wildlife. Dissolved mineral salts may cause irritation of the digestive tract in animals. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favor drift from target area.  
**Aquatic/Marine toxicity:** Will release ammonium ions. Slightly toxic to non-toxic to fish and aquatic organisms. Will release phosphate. Phosphates will result in algae growth which may increase turbidity and deplete oxygen resulting in potential hazards to fish and other marine organism.  
**Ecotoxicity:**  
 Acute fish toxicity, 96hr LC<sub>50</sub>, OECD 203 protocol, Rainbow trout: > 101 mg/L\*

**13. DISPOSAL CONSIDERATIONS**

Do not reuse container. Rinse container thoroughly, adding rinsate to mixing tank. Then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Avoid contaminating water by disposal of equipment wash waters or other product wastes. Do not contaminate water, food or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT.  
**U.S. Surface Freight Classification:** FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI; LIQUID (NMFC 68140, SUB 5; CLASS 50)

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>	NFPA		HMIS
	1 Health	0 Least	1 Health
	0 Flammability	1 Slight	0 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

**SARA Hazard Notification/Reporting**  
**SARA Title III Hazard Category:** Immediate Y Fire N Sudden Release of Pressure N  
 Delayed N Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed  
**SARA, Title III, Section 313:** Not listed  
**RCRA Waste Code:** Not listed  
**CA Proposition 65: WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

**16. OTHER INFORMATION**

**MSDS STATUS:** All sections reviewed and/or revised  
**PREPARED BY:** Registrations and Regulatory Affairs **REVIEWED BY:** Environmental/ Regulatory Services

\*TFI (The Fertilizer Institute) Product Testing Program

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