

Section 1 – Identification

Product	Ammonium Polyphosphate Solution 11-37-0	Recommended Use: Used as a liquid fertilizer or fertilizer blend component, used in animal feed and in various industrial applications.
Distributor Address	TradeMark Nitrogen Corp. 1216 Old Hopewell Road Tampa, FL 33619 - USA	
Phone 24 Hour Emergency Contact	(813) 626-1181 Chemtrec (800) 424-9300	

Section 2 – Hazard Identification



GHS07

Signal Word: WARNING

EYE IRRITATION: Category 2B

Hazard Statements:

- H302 Harmful if swallowed
- H320 Causes eye irritation
- H315 Causes skin irritation
- H335 May cause respiratory irritation

Precautionary Statements:

- P101: If medical advice is needed, have product container or label at hand.
- P102: Keep out of reach of children.
- P103 Read label before use
- P210 Keep away from open flames. - No Smoking
- P260 Do not breathe fume, mist, spray, vapours
- P264 Wash hands thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear eye protection, protective clothing, protective gloves
- P331 Do NOT induce vomiting
- P301+P330 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell
- P302+P352 IF ON SKIN: Wash with plenty of water
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P332+P313 If skin irritation occurs: Get medical advice / attention
- P337+P313 If eye irritation persists: Get medical advice / attention
- P362 Take off contaminated clothing
- P406 Store in a corrosion resistant container with a resistant inner liner
- P501 Dispose of contents / container according to local, regional, national, and international regulations

Section 3 – Composition

Ingredients	Component	CAS #	% by weight
	Ammonium Polyphosphate	68333-79-9	70 - 72
	Water	7732-18-5	<20
	Ammonium Dihydrogen Orthophosphate	7722-76-1	<10
	Diammonium Hydrogen Orthophosphate	7783-28-0	<10

Section 4 – First Aid Measures

Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. No known significant effects. Seek medical attention if necessary for any signs of coughing, wheezing or breathing difficulties.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin immediately with soap and water for at least 15 minutes. Seek medical attention if irritation persists.
Eye Contact	If in eyes: Rinse cautiously with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present and easy to do. Seek medical attention if irritation occurs.
Ingestion	If swallowed: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

Acute Health Hazards Moderate irritant of eyes, skin and contaminated tissue. Prolonged contact can result in tissue irritation or damage. Ingestion may be harmful.

Potential Acute Health Effects Eye contact Causes eye irritation

Inhalation	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards
Ingestion	May be harmful if swallowed. Over exposure by ingestion is unlikely under normal working conditions.

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media This product is non-flammable and material will not burn. Use an extinguishing agent suitable for the surrounding fire.

Chemical Hazards From Fire In a fire or if heated, a pressure increase will occur and the container may burst.

Decomposition products may include Nitrogen Oxides.

Special Fire Fighting Procedures Fire fighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling any combustion products.

NFPA Rating Health - 1 (Slight)
Fire - 0 (Least)
Reactivity - 0 (Least)



Other Do not allow run-off from fire fighting to enter drains or bodies of water.




Section 6 – Accidental Release Measure

Personal Precautions	Avoid splashing. Prevent exposure to spilled material with the use of proper PPE.
Protective Equipment	PPE should include gloves, goggles, face shield and impervious clothing.
Containment	Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms. Prevent entry into sewers, drains, underground or confined spaces, water intakes and waterways.
In Case of Spill	Absorb product with inert absorbent. Avoid splashing or spraying. Contain and pick up spill in diked area. Prevent discharge to soil, sewers or water ways. Follow all local, state, federal and provincial laws and regulations for disposal.

Section 7 – Safe Handling & Storage

Protective Measures	Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
General Occupational Hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas
Conditions for Safe Storage including any Incompatibilities	Store in accordance with local regulations. Store in original container or corrosionresistant and/or lined container. Corrosive to unlined mild steel. Store in a dry, cool and well-ventilated area, away from incompatible materials. Use appropriate containment to avoid environmental contamination. Incompatible with: aluminum, copper, zinc and their alloys, including brass, bronze and galvanized materials. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment.

Section 8 – Exposure Controls / Personal Protection

Exposure Limits	Component	Permissible Exposure Limit	Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health
	Ammonium Polyphosphate	None	None	None	None
	Water	None	None	None	None
	Ammonium Dihydrogenorthophosphate	None	None	None	None
	Diammonium Hydrogenorthophosphate	None	None	None	None
Engineering Controls	Local or general exhaust. Good ventilation should be sufficient to control worker exposure to airborne contaminants. Eyewash facilities should be available.				
Personal Protective Equipment	Eyes	Chemical safety goggles or safety glasses			
	Hands	Chemical resistant gloves			
	Respiratory	None required under normal conditions. NIOSH approved respirator if there is a mist of the product.			
	Protective Clothing	Impervious chemical clothing			
	  or 				
	Gloves	Goggles		Safety Glasses	

Section 9 – Physical & Chemical Properties

Appearance and Odor	Liquid solution with a green or brown color. No discernable odor.	Specific Gravity	1.450
Boiling Point	No Data Available	Solubility in Water	Soluble in water in any proportion
Freezing Point	<-12°C (<10.4°F)	Evaporative Rate	No Data Available
Vapor Pressure	No Data Available	pH	6.0
Gallons per Ton	166.6 gal / ton	Salt-Out Temp	No Data Available
Weight per Gallon	12.00 lb / gal	Auto Ignition Temp	Not Flammable
Flash Point	No Data Available	LEL	No Data Available
Flammability Limits	No Data Available	UEL	No Data Available

Section 10 – Stability & Reactivity

Reactivity	Product is not reactive under normal conditions. No specific test data related to reactivity available for this product or its ingredients.		
Stability	Product is stable under normal conditions.		
Hazardous Reactions	Hazardous polymerization will not occur. Under normal conditions or storage and use, hazardous reactions will not occur.		
Conditions to Avoid	Avoid extreme heat. Avoid incompatible materials.		
Incompatible Materials	Aluminium, copper, zinc and their alloys, including brass, bronze and galvanized materials. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment.		
Hazardous Decomposition Products	Under normal conditions - hazardous decomposition products should not occur.		

Section 11 – Toxicology Information

Routes of Exposure	Inhalation, ingestion or skin/eye absorption		
Symptoms and Signs of Exposure	Eyes	Causes eye irritation.	
	Skin	No known significant effects or critical hazards.	
	Inhalation	No known significant effects or critical hazards.	
	Ingestion	May be harmful if swallowed. Over-exposure by ingestion is unlikely under normal working conditions.	
Acute Health Hazards	This product may be harmful if swallowed. This product causes eye irritation.		
Long Term Effects	No known significant effects or critical hazards		
Toxicity	Not classified		

Component Analysis:

Ammonium polyphosphate (68333-79-9)	LD ₅₀ Oral Rat	4,740 mg / kg
	LD ₅₀ Dermal Rabbit	>3,160 mg / kg
Ammonium Dihydrogen Orthophosphate	LD ₅₀ Oral Rat	>2000 mg/kg

	LD ₅₀ Dermal	>5000 mg/kg
	Rat	
Diammonium Hydrogen Orthophosphate	LD ₅₀ Oral	>2000 mg/kg
	Rat	
	LD ₅₀ Dermal	>5000 mg/kg
	Rat	
Water (H ₂ O)	LD ₅₀ Oral	>90 mL / kg
	Rat	

Carcinogen The International Agency for Research on Cancer has not classified this product for its carcinogenic potential (IARC 1987).

Section 12 – Ecological Information

General Product Information May be harmful to the environment if released in large quantities. Excessive nutrient runoff to a body of water may result in eutrophication.

Persistence and Degradability Not persistent

Bioaccumulative Potential Bioaccumulation: Low potential

Mobility in Soil No known significant effects or critical hazards

Other Adverse Effects No known significant effects or critical hazards

Ecotoxicity	Ingredient name	Result	Species	Exposure
	Ammonium Polyphosphate	Acute EC50 90890 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 Hours
		Acute LC50 >500 mg/l	Fish	96 Hours
		Acute LC50 70000 µg/l Fresh water	Fish - Oncorhynchus tshawytscha - Juvenile (Fledgling, Hatchling, Weanling)	96 Hours
	Ammonium Dihydrogen Orthophosphate	Acute EC50 >97.1 mg/l	Aquatic plants	72 hours
		Acute LC50 1790 mg/l Fresh water	Daphnia	72 hours
		Acute LC50 >85.9 mg/l Fresh water	Fish	96 Hours
	Diammonium Hydrogen Orthophosphate	Acute LC50 1700 mg/l Fresh water	Fish - Cirrhinus mrigala/L. Rohita - Fry	96 Hours
		Acute LC50 120 µg/l Fresh water	Fish - Oreochromis mossambicus - Juvenile (Fledgling, Hatchling, Weanling)	96 Hours

Section 13 – Disposal Considerations

Waste The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14 – Transport Information

This product is not classified as hazardous as defined by 49 CFR 172.101 by the US Department of Transportation

This product is not regulated as a hazardous material for transportation as defined by Canada's Transportation of Dangerous Goods Information.

This product is not regulated as a dangerous good as defined by the IMDG regulations.

This product is not regulated as a dangerous good as defined by the IATA regulations.

Section 15 – Regulatory Information

United States - SARA Hazard Category This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:

Fire - No Pressure - No Reactive - No Acute - Yes Chronic - No

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

Chemical	CAS No.	CERCLA RQ (lbs.)	SARA Reporting		
			302	304	313
Ammonium Polyphosphate	68333-79-9	N/A	N/A	N/A	N/A
Ammonium Dihydrogen Orthophosphate	7722-76-1	N/A	N/A	N/A	< 10%
Diammonium Hydrogen Orthophosphate	7783-28-0	N/A	N/A	N/A	< 10%

CERCLA / Superfund, 40 CFR Part 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 DC (800-424-8802) is required.

TSCA Ammonium polyphosphate (68333-79-9) is listed on the active TSCA Inventory

California Prop 65 WARNING: This product can expose you to cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16 – Other Information

Date of Issue 9/29/2023

Date of Revision September 2023 SDS created to meet GHS requirements.

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