



Section 1. Product and Company Identification

**Product Name** Ammonium Polyphosphate  
**CAS Number** 68333-79-9

**Parchem - fine & specialty chemicals**

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**New Rochelle, NY 10801**

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EMERGENCY RESPONSE NUMBER  
CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

**GHS Label Elements**

**Pictograms:** N/A

**Signal word:** N/A

**Hazard and precautionary statements**

None

The product contains no substances which at their given concentration are considered to be hazardous to health

Section 3. Composition / Information on Ingredients

**Common Name** Ammonium Polyphosphate  
**Synonym(s)** APP  
**CAS Number** 68333-79-9

Section 4. First Aid Measures

**Eye Contact:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

**Skin Contact:** Remove contaminated clothing and shoes. Remove product and immediately wash affected area with water and soap for at least 15 minutes.

**Inhalation:** Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice. Prevent aspiration of vomit. Turn victim's head to the side. Get medical attention.

**Ingestion:** In the event of ingestion, rinse out mouth with plenty of water. Do not induce vomiting. Seek medical advice.



**Potential Acute Health Effects/Over-Exposure Signs and Symptoms:** None known

**Recommendations for Immediate Medical Care and Special Treatment:** No data available

#### Section 5. Firefighting Measures

**Extinguishing Media:** Review surrounding chemicals. Water spray (fog), alcohol-resistant foam, dry chemical, or carbon dioxide

**Unsuitable Media:** Do not use high powered water spray

**Firefighting Procedures:** As with any fire, a face shield should be worn. Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus. Retain expended liquids from fire fighting for later disposal.

**Unusual Fire and Explosion Hazards:** Product is not explosive, flammable, or combustible

#### Section 6. Accidental Release Measures

**Personal Precautions:** Clean-up personnel must be equipped with appropriate protective equipment including protective clothing, respiratory protection, boots, gloves, and eye protection.

**Environmental Precautions:** Avoid run off to waterways and sewers

**Emergency Procedures:** As a precautionary measure, isolate the spill. Keep unauthorized personnel away. Ventilate closed spaces.

**Containment Techniques:** Vacuum, shovel or sweep into a container for disposal according to applicable local authorities

#### Section 7. Handling and Storage

**Precautions for Safe Handling:** Good housekeeping procedures should be followed to avoid dust generation or accumulation. Avoid contact with skin or eyes. Always use personal protective equipment. When handling, do not eat, drink, or smoke.

**Precautions for Safe Storage:** Keep in a dry and well ventilated place

**Other Precautions:** Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations (e.g. OSHA).

#### Section 8. Exposure Controls / Personal Protection

**Control Parameters:** No exposure limit value known

**Exposure Controls:** Handle in accordance with good industrial hygiene and safety practice. Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Launder or discard contaminated clothing.

#### Personal Protective Equipment

**Eye/Face Protection:** Face Shield and chemical resistant goggles



**Skin Protection:** Handle with chemical resistant gloves. Use proper glove removal technique to avoid skin contact

**Skin Protection:** Chemical resistant gloves. The breakthrough time of the selected glove(s) must be greater than the intended use period.

**Respiratory Protection:** Not required under normal conditions in a well-ventilated workplace. At elevated temperatures a cartridge mask National Institute for Occupational Safety and Health (NIOSH) approved for ammonia may be appropriate.

**Control of Environmental Exposure:** Do not let product enter drains

#### Section 9. Physical and Chemical Properties

**Physical Form:** Powder

**Color:** White

**Odor:** None

**pH (10% solution @ 20°C):** 5.5 - 7.5

**Melting point:** Not determined

**Vapor density:** Not applicable

**Vapor pressure:** Not applicable

**Acid Value:** Not determined

**Solubility (25°C):** > 45 g/100ml

**P:** ≥ 19.5%

**N:** ≥ 25%

**P<sub>2</sub>O<sub>5</sub>:** ≥ 45%

**Decomposition Temperature:** Not determined

**Specific Gravity:** Not determined

#### Section 10. Stability and Reactivity

**Chemical Stability:** Stable under normal conditions

**Incompatibility (Materials to Avoid):** Avoid contact with strong oxidizing agents, strong acids, and strong bases.

**Hazardous Decomposition Products (from burning, heating, or reaction with other materials):** Phosphorous oxides, nitrogen oxides, and ammonia

**Hazardous Polymerization:** Will not occur

**Conditions to Avoid (if polymerization may occur):** Avoid temperature above 270°C

#### Section 11. Toxicological Information

**Acute Oral Toxicity (LD50, Rat):** > 2000 mg/kg

**Acute Dermal Toxicity (LD50, Rabbit):** Slight irritant (24h Rabbit)

**Acute Inhalation Toxicity (LC50, Rat):** No data available

**Other Acute Effects:** No data available

**Irritation Effects Data:** No data available

**Chronic/Subchronic Data:** No data available



**Potential Chronic Health Effects**

**Short Term Exposure:** No data available

**Long Term Exposure**

**Potential delayed effects:** No data available

**General:** No data available

**Carcinogenicity:** No data available

**Mutagenicity:** No data available

**Teratogenicity:** No data available

**Developmental effects:** No data available

**Fertility effects:** No data available

Section 12. Ecological Information

**Toxicity**

Product/Ingredient Name	Test	Endpoint	Exposure	Species	Result
Ammonium Polyphosphate	LC50		96h	Zebra Fish	1000 mg/L

**Persistence and Degradability:** Not available

**Bioaccumulation Potential:** Not available

**Mobility in Soil:** Not available

**Other Ecological Information:** Not available

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT Non-Bulk Shipping Name**

**Shipping Name:** Not DOT regulated

**Class:** N/A

**UN/ID No:** N/A

**Packing Group:** N/A

Section 15. Regulatory Information

**US Federal Regulations**

**Toxic Substances Control Act (TSCA):** All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**Toxic Substance Control Act (TSCA) 12(b) Component(s):** None



**SARA Title III Section 311/312:** None

**SARA Title III Section 313 (40CFR372) Toxic Chemicals:** None

**SARA Title III Section 302 Extremely Hazardous Substances:** None

Section 16. Other Information
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**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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