

# SAFETY DATA SHEET

Date Printed: 06/03/2024

Date Revised: 01/15/2022

---

## SECTION 1. IDENTIFICATION

**Product Identifier:** (4N) 99.99% Ammonium Polyphosphate

**Product Code:** AM-PLPAT-04

**CAS Number:** 68333-79-9

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

---

## SECTION 2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal word

Not classified

Hazard Statements

Not classified

Symbols/Pictograms

Not classified

Precautionary Statements - Prevention- Wash hands thoroughly after handling

Precautionary Statements - Response-IF exposed or concerned: Get medical advice/attention

Hazards not otherwise classified (HNOC)

N/A

---

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No: 68333-79-9

Molecular Weight: 149.09  
Formula: H<sub>12</sub>N<sub>3</sub>O<sub>4</sub>P

---

## SECTION 4. FIRST AID MEASURES

First Aid Measures

General advice

Consult a physician if necessary. Remove to fresh air.

Eye contact

Wash with plenty of water.

Skin Contact

Wash skin with soap and water.

Inhalation

Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration.

Ingestion

Never give anything by mouth to an unconscious person. Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms

No data available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically

---

## SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical

Specific hazards arising from the chemical

No data available.

Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>).

Explosion data

Sensitivity to Mechanical Impact

No data available.

Sensitivity to Static Discharge

No data available.

Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

---

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

---

## **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Corrosive hazard.

Wear protective gloves/clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature.

Incompatible materials

None known based on information supplied.

---

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls

Showers

Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin and Body Protection

Wear protective gloves and protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

---

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Chemical Name: Ammonium Pyrophosphate  
Percent Equivalent: 100%  
Physical State: Solid, Free-flowing  
Color and Appearance: White, Crystals or Powder  
Odor: no data  
Odor Threshold: no data  
pH (9% slurry):  $\geq 5.0$   
Specific Gravity (water=1): no data  
Vapor Pressure: N/A  
Vapor Density (Air = 1): N/A  
Density: 1.75-1.80 g/mL  
Bulk Density: no data  
Volatility: N/A  
Boiling Point: N/A  
Melting Point: N/A  
Evaporation Rate (Butyl Acetate=1): N/A  
Solubility in water:  $\leq 0.3$  g/mL  
Viscosity: no data  
Other Solubilities: no data  
Chemical Formula: no data  
Formula Wt: no data

---

## SECTION 10. STABILITY AND REACTIVITY

Chemical Stability (stable under normal temperature and pressures): Stable  
Hazardous Polymerization: Will Not Occur  
Conditions to Avoid: None reported.  
Chemical Incompatibility and Materials to Avoid: oxidizing materials  
Hazardous Decomposition Products: Thermal decomposition products or combustion: ammonia, inorganic acids

---

## SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data:  
5625 mg/kg oral-rat LD50  
Acute toxicity  
Slightly Toxic: ingestion  
Other Effects on Humans: no data  
Carcinogen Status:  
OSHA: No  
NTP: No  
IARC: No

---

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity  
May cause long lasting harmful effects to aquatic life.  
Fish Toxicity: 123000 ug/L 96 day(s) LC50 (Mortality) Rainbow trout, donaldson trout (Oncorhynchus mykiss)

---

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

---

## SECTION 14. TRANSPORT INFORMATION

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

---

## SECTION 15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists

TSCA (United States): Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) South Korea (KECL): China (IECSC)

ENCS (Japan): Philippines (PICCS)

X - Listed

TSCA

- United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL

- Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS

- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS

- Japan Existing and New Chemical Substances

IECSC

- China Inventory of Existing Chemical Substances

KECL

- Korean Existing and Evaluated Chemical Substances

PICCS

- Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard

No

Chronic Health Hazard

No

Fire hazard

No  
Sudden release of pressure hazard  
No  
Reactive hazard  
No  
CWA (Clean Water Act)  
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).  
US State Regulations  
California Proposition 65  
This product does not contain any Proposition 65 chemicals.  
U.S. State Right-to-Know Regulations  
This product does not contain any substances regulated by state right-to-know regulations.

---

## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). 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. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.