SAFETY DATA SHEET

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
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
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media
None.
Specific hazards arising from the chemical
No data available.
Hazardous combustion products
Nitrogen oxides (NOx).
Explosion data
Sensitivity to Mechanical Impact
No data available.
Sensitivity to Static Discharge
No data available.
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 Conditions
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  
\( \text{pH (9\% slurry)}: \geq 5.0 \)  
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  
Vapility: 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 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.