

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Aluminum Phosphate Monobasic Solution

Product Number: All applicable American Elements product codes, e.g. AL-H2PAT-01-SOL

CAS #: 13530-50-2

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

Classification:

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification

Label Elements:

None required

Hazards not otherwise classified (HNOC):

None identified

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component / CAS-No:

Water / 7732-18-5

Phosphoric acid, aluminum salt (3:1) / 13530-50-2

SECTION 4. FIRST AID MEASURES

Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation:

Move to fresh air. Get medical attention immediately if symptoms occur.

Ingestion:

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects:

None reasonably foreseeable.

Notes to Physician:

Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media:

Not combustible.

Unsuitable Extinguishing Media: No information available

Flash Point No information available

Method - No information available

Autoignition Temperature: No information available

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No

Specific Hazards Arising from the Chemical:

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products:

Oxides of phosphorus Fumes of aluminum or aluminum oxide.

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.

NFPA:

Health

2

Flammability

Instability

Physical hazards

-

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Ensure adequate ventilation. Use personal protective equipment.

Environmental Precautions:

Should not be released into the environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Up:

Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling:

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

Storage:

Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Component: Phosphoric acid, aluminum salt (3:1)

ACGIH TLV: TWA: 1 mg/m³

OSHA PEL:

NIOSH IDLH:

Mexico OEL (TWA):

Engineering Measures:

Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye/face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Colorless

Odor: Odorless

Odor Threshold: No information available

pH: No information available

Melting Point/Range: No data available

Boiling Point/Range: No information available

Flash Point: No information available

Evaporation Rate: No information available

Flammability (solid,gas): Not applicable

Flammability or explosive limits

Upper: No data available

Lower: No data available

Vapor Pressure: ≤ 1100 hPa @ 50 °C

Vapor Density: No information available

Specific Gravity: 1.5 g/cm³
Solubility: No information available
Partition coefficient; n-octanol/water: No data available
Autoignition Temperature: No information available
Decomposition Temperature: No information available
Viscosity: No information available
Molecular Formula: AlH₆ O₁₂ P₃
Molecular Weight: 317.94

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard: None known, based on information available
Stability: May form precipitate.
Conditions to Avoid: Incompatible products.
Incompatible Materials: Oxidizing agents
Hazardous Decomposition Products: Oxides of phosphorus, Fumes of aluminum or aluminum oxide
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Product Information
Oral LD₅₀ Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD₅₀ Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC₅₀ Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.
Toxicologically Synergistic Products:
No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation:
No information available
Sensitization:
No information available
Carcinogenicity:
Component : Water / Phosphoric acid, aluminum salt (3:1)
CAS-No: 7732-18-5 / 13530-50-2
IARC: Not listed
NTP: Not listed
ACGIH: Not listed
OSHA: Not listed
Mexico: Not listed
Mutagenic Effects: No information available
Reproductive Effects: No information available.
Developmental Effects: No information available.
Teratogenicity: No information available.
STOT - single exposure None known
STOT - repeated exposure None known
Aspiration hazard: No information available
Symptoms / effects, both acute and delayed: No information available
Endocrine Disruptor Information: No information available
Other Adverse Effects: The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Do not empty into drains.

Persistence and Degradability:

Miscible with water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation:

No information available.

Mobility:

Will likely be mobile in the environment due to its water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Component: Water

Massachusetts: -

New Jersey: -

Pennsylvania: X

Illinois: -

Rhode Island: -

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security:

This product does not contain any DHS chemicals.
Other International Regulations
Mexico - Grade No information available

SECTION 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.