

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance
Trade name : ALUMINUM PHOSPHATE

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Pharmaceutical ingredient.

Details of the supplier of the safety data sheet

SPI Pharma Inc.
Rockwood Office Park
503 Carr Road
Wilmington, Delaware 19809
(302) 360-7200

Emergency telephone number

Emergency number : Chemtrec (800) 424-9300; Chemtrec (Outside USA) +1 703-527-3887 (24 hours; 7 days/week)

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Not classified

Label elements

GHS-US labelling

No labelling applicable

Other hazards

No additional information available

Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

Name : ALUMINUM PHOSPHATE

Name	Product identifier	%	GHS-US classification
Aluminum phosphate	(CAS No) 7784-30-7	100	Not classified

This substance does not contain any substances to be mentioned according to the criteria of Appendix D to Regulations 29 CFR 1910.1200.

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest. Get medical attention.
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash clothing before re-using. Obtain medical attention if irritation persists.
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation : Acute exposure may cause respiratory irritation. Chronic exposure to dust may result in delayed lung injury.
Symptoms/injuries after skin contact : May cause mechanical irritation.
Symptoms/injuries after eye contact : May cause mechanical irritation.
Symptoms/injuries after ingestion : May cause irritation to the digestive tract.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

ALUMINUM PHOSPHATE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard : None known.
Explosion hazard : None known.
Reactivity : Stable under normal conditions.

Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures : If spilled, may cause the floor to be slippery.

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Flush residue with large amounts of water. Dispose of contents/container to comply with applicable local, national and international regulations.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids. Strong oxidizing agents.
Incompatible materials : Sources of ignition. Direct sunlight.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Guidelines

A: General Product Information

Follow all applicable exposure limits. Safe work practices should always be followed to keep exposures as low as possible.

ALUMINUM PHOSPHATE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

B: Component Exposure Limits

Aluminum phosphate (7784-30-7)

ACGIH:	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) (related to Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
OSHA (Final):	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (related to Particulates not otherwise regulated)
OSHA (Vacated):	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (related to Particulates not otherwise regulated)
Alberta:	10 mg/m3 TWA (total particulate); 3 mg/m3 TWA (respirable particulate) (related to Particulates not otherwise regulated)
British Columbia:	10 mg/m3 TWA (inhalable); 3 mg/m3 TWA (respirable) (related to Particles (insoluble or poorly soluble) not otherwise specified)
Manitoba:	10 mg/m3 TWA (total dust containing no asbestos and <1% free silica) (related to Nuisance particulates)
New Brunswick:	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica, inhalable fraction); 3 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica, respirable fraction) (related to Particulates not otherwise classified (PNOC))
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) (related to Nuisance particulate)
Nova Scotia:	10 mg/m3 TWA (inhalable particulate, recommended); 3 mg/m3 TWA (respirable particulate, recommended) (related to Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) (related to Nuisance particulate)
Ontario:	10 mg/m3 TWAEV (inhalable); 3 mg/m3 TWAEV (respirable) (related to Particulates (insoluble or poorly soluble) Not Otherwise Classified (PNOC))
Quebec:	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica) (related to Particulates not otherwise classified (PNOC))
Saskatchewan:	10 mg/m3 TWA; 3 mg/m3 TWA (respirable size) (related to Particulates, n.o.c.) 20 mg/m3 STEL; 6 mg/m3 STEL (respirable size) (related to Particulates, n.o.c.)

Exposure controls

Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
Personal protective equipment	: Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing.



Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Appropriate dust or mist respirator should be used if airborne particles are generated when handling this material. NIOSH mask with filter for organic gases and vapors.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Colorless to white rhombic plates or powder
Colour	: Colorless to white rhombic plates or powder
Odour	: Very slight odor
Odour threshold	: No data available
pH	: 6.3 @ 10% suspension
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: >2732°F(>1500°C)
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Unknown
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: Insoluble
Log Pow	: No data available

ALUMINUM PHOSPHATE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Log Kow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products

Upon decomposition, aluminum oxide may be formed. Irritating and toxic gases or fumes may be released during a fire. Decomposition of this product may yield oxides of phosphorus.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity : Not classified

Aluminum phosphate (7784-30-7)

Dermal LD50 Rabbit	> 4640 mg/kg
--------------------	--------------

Skin corrosion/irritation : Not classified
Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : None known.

Symptoms/injuries after inhalation : Acute exposure may cause respiratory irritation. Chronic exposure to dust may result in delayed lung injury.

Symptoms/injuries after skin contact : May cause mechanical irritation.

ALUMINUM PHOSPHATE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Symptoms/injuries after eye contact : May cause mechanical irritation.
Symptoms/injuries after ingestion : May cause irritation to the digestive tract.

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability

Aluminum phosphate

Persistence and degradability	Not established.
-------------------------------	------------------

Bioaccumulative potential

Aluminum phosphate

Bioaccumulative potential	Not established.
---------------------------	------------------

Mobility in soil

No additional information available

Other adverse effects

Effect on ozone layer : No additional information available
Effect on the global warming : No known ecological damage caused by this product.
Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT
Not regulated for transport

Additional information

Other information : No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

15.2.2. National regulations

No additional information available

ALUMINUM PHOSPHATE

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

15.3. US State regulations

No supplementary information available

SECTION 16: Other information

Abbreviations and acronyms : ATE - acute toxicity estimate. CAS - Chemical Abstracts Service. HCS - Hazard Communication Standard. HMIS - Hazardous Materials Identification System. GHS - Globally Harmonised System. OSHA - Occupational Safety and Health Administration. SDS - Safety Data Sheet.

Date of SDS preparation : 05/01/2015

Other information : None.

NFPA health hazard : 1 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating

Health : 1 Slight Hazard - No significant risk to health

Flammability : 1 Slight Hazard

Physical : 0 Minimal Hazard

Personal Protection : Safety glasses with side shields

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product