

Material Safety Data Sheet

Aluminum potassium sulfate dodecahydrate

MSDS# 19200

Section 1 - Chemical Product and Company Identification

MSDS Name: Aluminum potassium sulfate dodecahydrate

Catalog AC217480000, AC217480010, AC217485000, AC423260000, AC423260010, AC423260030 Numbers: AC423260030, AC423260050, AC423265000, A601-3, A601-500, A605-12, A605-212, A605-500

Alum; Aluminum potassium sulfate, dodecahydrate; Kalinite; Potassium alum; Sulfuric acid, aluminum

Synonyms: potassium salt.

Fisher Scientific
Company Identification:
One Reagent Lane

Fair Lawn, NJ 07410

For information in the US, call: 201-796-7100
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300

Section 2 - Composition, Information on Ingredients

Risk Phrases:

CAS#: 7784-24-9

Chemical Name: Aluminum potasium sulfate dodecahydrate

%: 100 EINECS#: unlisted

Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: XN



Risk Phrases: 22 36/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! May cause respiratory tract irritation. Irritant. Harmful if swallowed. Causes eye and skin irritation. Target Organs: Eyes, skin.

Potential Health Effects

Eye: Causes eye irritation. May cause chemical conjunctivitis.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: Harmful if swallowed. Ingestion of large amounts may cause gastrointestinal irritation.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower

eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes. Wash clothing before reuse.

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If

Ingestion: conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If Inhalation:

breathing is difficult, give oxygen. Get medical aid.

Notes to

Treat symptomatically and supportively. Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General

(approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be

generated by thermal decomposition or combustion.

Extinguishing Media:

Information:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Not applicable.

Temperature:

Flash Point: Not applicable.

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: health: 2; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

General

Use proper personal protective equipment as indicated in Section 8. Information:

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then

place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate Handling: ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse. Discard contaminated shoes.

Storage: Store in a cool, dry place. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	+	++ OSHA - Final PELs
Aluminum potasium s ulfate dodecahydrat e	i I	2 mg/m3 TWA (as Al) (listed under Aluminum, soluble salts).	none listed
Potassium aluminum sulfate 		2 mg/m3 TWA (as Al) (listed under Aluminum, soluble salts).	 none listed

OSHA Vacated PELs: Aluminum potasium sulfate dodecahydrate: 2 mg/m3 TWA (as Al, listed under Aluminum) (listed under Aluminum, soluble salts) Potassium aluminum sulfate: 2 mg/m3 TWA (as Al, listed under Aluminum) (listed under Aluminum, soluble salts)

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes:

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves to prevent skin exposure. Skin.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or

European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Crystals Color: white

Odor: odorless

pH: 3.0-3.5 (10% aq soln)

Vapor Pressure: Not applicable. Vapor Density: Not available

Evaporation Rate: Not applicable.

Viscosity: Not applicable.

Boiling Point: Not available

Freezing/Melting Point: 92 deg C (197.60°F)

Decomposition Temperature:

Solubility in water: Partially soluble

Specific Gravity/Density: 1.757

Molecular Formula: AlK(SO4)2.12H2O

Molecular Weight: 474.3558

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials

Strong oxidizing agents, aluminum, copper, steel, zinc.

Hazardous Decomposition Products

Oxides of sulfur, aluminum oxide, oxides of potassium.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7784-24-9: WS5690000 CAS# 10043-67-1: WS5650000

LD50/LC50: RTECS: Not available. RTECS: Not available.

Aluminum potasium sulfate dodecahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA

Carcinogenicity: Prop 65.

Potassium aluminum sulfate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group: European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

R 36/38 Irritating to eyes and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 7784-24-9: Not available

CAS# 10043-67-1: 1

Canada

CAS# 10043-67-1 is listed on Canada's DSL List

Canadian WHMIS Classifications: D1B, D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7784-24-9 is not listed on Canada's Ingredient Disclosure List.

CAS# 10043-67-1 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7784-24-9 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40CFR720.3(u)(2)).

CAS# 10043-67-1 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 5/08/1998 Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
