



J.T. Baker Inc.  
222 Red School Lane  
Phillipsburg, NJ 08865

24-Hour Emergency Telephone 908-859-2151  
National Response Center 800-424-8802  
Chemtrec 800-424-9300

National Response In Canada  
CANUTEC 613-996-6666

Outside U.S. and Canada  
Chemtrec 202-483-7616

**MATERIAL SAFETY DATA SHEET**

FICHE  
SIGNALÉTIQUE

HOJAS DE DATOS  
DE SEGURIDAD

**NOTE:** CHEMTREC, CANUTEC and National Response Center emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

A2856 -02 Aluminum Potassium Sulfate, 12-Hydrate  
Effective: 03/09/92

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J.T.BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

Product Name: Aluminum Potassium Sulfate, 12-Hydrate  
Common Synonyms: Potassium Alum; Potash Alum; Alum; Kalinite  
Chemical Family: Aluminum Compounds  
Formula:  $AlK(SO_4)_2 \cdot 12H_2O$   
Formula Wt.: 474.39  
CAS No.: 7784-24-9  
NIOSH/RTECS No.: N/A  
Product Use: Laboratory Reagent  
Product Codes: 0546

PRECAUTIONARY LABELING

BAKER SAF-T-DATA\* System

HEALTH <b>1</b> SLIGHT	FLAMMABILITY <b>0</b> NONE	REACTIVITY <b>0</b> NONE	CONTACT <b>1</b> SLIGHT
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Laboratory Protective Equipment



U.S. Precautionary Labeling

CAUTION!

MAY CAUSE IRRITATION.

During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.



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===== PRECAUTIONARY LABELING (CONTINUED) =====

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA\* Storage Color Code: Orange (general storage)

===== SECTION II - COMPONENTS =====

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>OSHA/PEL</u>	<u>ACGIH/TLV</u>
Aluminum Potassium Sulfate	7784-24-9	98-100	N/E	N/E

===== SECTION III - PHYSICAL DATA =====

Boiling Point: N/A Vapor Pressure (mmHg): N/A

Melting Point: 93°C (199°F) (at 760 mm Hg) Vapor Density (air=1): N/A

Specific Gravity: 1.73 (H<sub>2</sub>O=1) Evaporation Rate: N/A

Solubility(H<sub>2</sub>O): Appreciable (>10%) % Volatiles by Volume: N/A (21°C)

pH: N/A

Odor Threshold (ppm): N/A Physical State: Solid

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: Colorless crystals. Odorless.



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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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Flash Point (Closed Cup): N/A

Autoignition Temperature: N/A

Flammable Limits: Upper - N/A Lower - N/A

Fire Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards

None identified.

Toxic Gases Produced

sulfur dioxide

Explosion Data-Sensitivity to Mechanical Impact

None identified.

Explosion Data-Sensitivity to Static Discharge

None identified.

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SECTION V - HEALTH HAZARD DATA

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Threshold Limit Value (TLV/TWA): 2 mg/m<sup>3</sup>

TLV is for Aluminum, Soluble salts, as Al.

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): Not Established

Toxicity of components

Oral Mouse LD<sub>50</sub> for Aluminum Potassium Sulfate 6207 mg/kg

Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg: No



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SECTION V - HEALTH HAZARD DATA (CONTINUED)  
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Carcinogenicity  
None identified.

Reproductive Effects  
None identified.

Effects of Overexposure

- INHALATION: irritation of mucous membranes
- SKIN CONTACT: irritation
- EYE CONTACT: irritation
- SKIN ABSORPTION: none identified
- INGESTION: none identified
- CHRONIC EFFECTS: none identified

Target Organs  
none identified

Medical Conditions Generally Aggravated by Exposure  
none identified

Primary Routes of Entry  
skin contact, eye contact

Emergency and First Aid Procedures

- INGESTION: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.
- INHALATION: If a person breathes in large amounts, move the exposed person to fresh air.
- SKIN CONTACT: In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.
- EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.



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SECTION V - HEALTH HAZARD DATA (CONTINUED)

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No  
 Extremely Hazardous Substance: No  
 CERCLA Hazardous Substance: No  
 SARA 313 Toxic Chemicals: Yes Contains Aluminum  
 Generic Class: Generic Class Removed from CFR: 7/1/91  
 TSCA Inventory: Yes

SECTION VI - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur  
 Conditions to Avoid: none documented  
 Incompatibles: none identified  
 Decomposition Products: oxides of sulfur

SECTION VII - SPILL & DISPOSAL PROCEDURES

Steps to be Taken in the Event of a Spill or Discharge  
 Wear suitable protective clothing. Carefully sweep up and remove.  
Disposal Procedure  
 Dispose in accordance with all applicable federal, state, and local environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet TLV requirements.  
 Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.



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 SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT (CONTINUED)  
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Eye/Skin Protection: Safety goggles, proper gloves are recommended.

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 SECTION IX - STORAGE AND HANDLING PRECAUTIONS  
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SAF-T-DATA\* Storage Color Code: Orange (general storage)

Storage Requirements

Keep container tightly closed. Suitable for any general chemical storage area.

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 SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION  
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Domestic (D.O.T.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

International (I.M.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)  
 Marine Pollutants: No

AIR (I.C.A.O.)

Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

U.S. Customs Harmonization Number: 28333000003

N/A = Not Applicable or Not Available  
 N/E = Not Established

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 The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and



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 face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.

BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.

Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

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 Approved by Quality Assurance Department.