



# MATERIAL SAFETY DATA SHEET

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MSDS No. 9401106 9401108  
Effective Date: December 1, 2005

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Aluminum Potassium Sulfate	<b>416-984-3000</b>  <b>HAZARD RATING</b> Minimal 0 Slight 1 Moderate 2 Serious 3 Severe 4 <b>WHMIS</b> Health 1 Flammability 0 Reactivity 0
Chemical Synonyms	Potassium Alum; Alum	
Formula	AlK(SO <sub>4</sub> ) <sub>2</sub> ·12H <sub>2</sub> O	
CAS No.	7784-24-9	

## SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Aluminum potassium sulfate, dodecahydrate	100%	N/A
<b>WARNING!</b>		

## SECTION III PHYSICAL DATA

Melting Point (°C)	Loses H <sub>2</sub> O @ 93°C	Specific Gravity (H <sub>2</sub> O = 1)	1.97
Boiling Point (°C)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (-1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Moderate.		
Appearance & Odor	White crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO <sub>2</sub> , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

### Flammability and Explosion Hazards

Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume.

**TDG** Not controlled under TDG.

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## SECTION V REACTIVITY DATA AA0195

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Alkalies. Corrosive to aluminum, copper, steel, zinc and other metals.
	No		
Hazardous Decomposition Products	Sulfur trioxide and sulfur dioxide.		

Reactive under what conditions: Loses SO<sub>3</sub> at high temperatures.

## SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Inhalation. Ingestion.
TLV	10 mg/m <sup>3</sup> as aluminum metal dust.
Toxicity for animals	N/A
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Liver, kidneys.
Acute effects on humans	Harmful if swallowed. Irritating to eyes, skin and respiratory system.

## SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container dry. Keep in a cool place. Keep container tightly closed.
Precautions	Avoid contact with skin and eyes. DO NOT breathe dust. DO NOT ingest. If ingested, seek medical advice immediately.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wash spill area with soap and water.
Protective Clothing	Safety glasses, lab coat, dust respirator, gloves.

## SECTION VIII FIRST AID MEASURES

Specific first aid measures	<p>Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.</p>
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## SECTION IX PREPARATION OF THE MSDS

Rev. No.	4	Date	December 1, 2005	Approved	Michael Raszeja
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