



Material Safety Data Sheet

<p>NFPA</p>	<p>HMIS</p> <table border="1" style="margin: auto;"> <tr><td style="background-color: #00FFFF;">Health Hazard</td><td style="text-align: center; border: 1px solid black;">1</td></tr> <tr><td style="background-color: #FFCCCC;">Fire Hazard</td><td style="text-align: center; border: 1px solid black;">0</td></tr> <tr><td style="background-color: #FFFF00;">Reactivity</td><td style="text-align: center; border: 1px solid black;">0</td></tr> </table>	Health Hazard	1	Fire Hazard	0	Reactivity	0	<p>Personal Protective Equipment</p> <p style="text-align: center;">See Section 15.</p>
Health Hazard	1							
Fire Hazard	0							
Reactivity	0							

Section 1. Chemical Product and Company Identification		<i>Page Number: 1</i>										
Common Name/ Trade Name	Aluminum potassium sulfate	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Catalog Number(s).</td> <td>YY1452, A2735, A1105, A1106, A1107, AL230</td> </tr> <tr> <td>CAS#</td> <td>7784-24-9</td> </tr> <tr> <td>RTECS</td> <td>WS5690000</td> </tr> <tr> <td>TSCA</td> <td>TSCA 8(b) inventory: No products were found. This material is exempt from TSCA 8(b) listing since it is a hydrate. However, the anhydrous form (CAS no. 10043-67-1) is listed on the TSCA 8(b) Inventory.</td> </tr> <tr> <td>CI#</td> <td>Not available.</td> </tr> </table>	Catalog Number(s).	YY1452, A2735, A1105, A1106, A1107, AL230	CAS#	7784-24-9	RTECS	WS5690000	TSCA	TSCA 8(b) inventory: No products were found. This material is exempt from TSCA 8(b) listing since it is a hydrate. However, the anhydrous form (CAS no. 10043-67-1) is listed on the TSCA 8(b) Inventory.	CI#	Not available.
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CI#	Not available.											
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	<p style="color: blue; text-align: center;"><u>IN CASE OF EMERGENCY</u> <u>CHEMTREC (24hr) 800-424-9300</u></p> <p style="text-align: center;">CALL (310) 516-8000</p>										
Commercial Name(s)	Potassium alum, dodecahydrate											
Synonym	Aluminum Potassium Sulfate Dodecahydrate; Sulfuric Acid, Aluminum Potassium Salt (2:1:1), Dodecahydrate.											
Chemical Name	Aluminum Potassium Sulfate, dodecahydrate											
Chemical Family	Not available.											
Chemical Formula	AlK(SO ₄) ₂ .12H ₂ O											
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248											

Section 2. Composition and Information on Ingredients					
			<i>Exposure Limits</i>		
Name	CAS #	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Aluminum potassium sulfate	7784-24-9				100
Toxicological Data on Ingredients					
<p style="text-align: center;">Aluminum potassium sulfate</p> <p style="text-align: center;">LD50: Not available. LC50: Not available.</p>					

Section 3. Hazards Identification	
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects	<p>CARCINOGENIC EFFECTS: Not available.</p> <p>MUTAGENIC EFFECTS: Not available.</p> <p>TERATOGENIC EFFECTS: Not available.</p> <p>DEVELOPMENTAL TOXICITY: Not available.</p> <p>Repeated or prolonged exposure is not known to aggravate medical condition.</p>

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Not available.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Precautions	Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, metals, alkalis.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Crystals solid. Granular solid. Crystalline powder.)	Odor	Odorless.
Molecular Weight	474.38 g/mole	Taste	Sweetish, astringent.
pH (1% soln/water)	Not available.	Color	White.
Boiling Point	Not available.		
Melting Point	92.5°C (198.5°F)		
Critical Temperature	Not available.		
Specific Gravity	1.757 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	16.4 (Air = 1)		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in hot water. Partially soluble in cold water. Insoluble in acetone. Solubility in Water: 1 g dissolves in 7.2 ml water; 1 gram dissolves in 0.3 ml boiling water. Freely soluble in Glycerol. Insoluble in alcohol.		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	Incompatible Materials
Incompatibility with various substances	Reactive with oxidizing agents, metals, alkalis.
Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Incompatible with strong oxidizing agents, bases, and metals (steel, aluminum, copper, zinc). Becomes anhydrous at about 200 deg. C.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

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Section 11. Toxicological Information

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause adverse developmental effects (fetotoxicity) based on animal data (noted in the Registry of Toxic Effects of Chemical Substances (RTECS). Insufficient animal data. No human data found May cause adverse reproductive effects based on animal data (male rat - paternal effects: Testes, epididymis, sperm duct) (Noted in RTECS for CAS no. 10043-67-1 (Aluminum Potassium sulfate, anhydrous). Insufficient animal data. No human data found May affect genetic material (mutagenic) (noted in RTECS for CAS no. 10043-67-1 (Aluminum Potassium sulfate, anhydrous)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation particularly on abraded skin. Eyes: Dust may cause eye irritation. Inhalation: Dust may cause irritation of the respiratory tract and mucous membranes. Ingestion: May cause gastrointestinal tract irritation. Symptoms may range from mild abdominal cramping and nausea, to severe vomiting and hemorrhagic gastroenteritis depending on the concentration and amount ingested. Ingestion may also produce a feeling of dryness and puckering of the mucous membranes of the mouth and throat. May also affect behavior (lethargy, confusion, ataxia, seizures), liver, blood (changes in serum composition, normocytic anemia), urinary system (kidneys), metabolism (metabolic acidosis). Note: The above health effects were extrapolated from those of Alum. and Potassium Alum, anhydrous

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Section 14. Transport Information

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.

DOT (Pictograms)



Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations

No products were found.

California Proposition 65 Warnings

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations

EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances.
 Canada: Not listed on Canadian Domestic Substance List (DSL) or Canadian Non- Domestic Substance List (NDSL).

China: Listed on National Inventory.
 Japan: Lsted on National Inventory (ENCS).
 Korea: Not listed on National Inventory (KECI).
 Philippines: Listed on National Inventory (PICCS).
 Australia: Listed on AICS.

Other Classifications

WHMIS (Canada) CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC) R36/38- Irritating to eyes and skin. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37- Wear suitable gloves.

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	E

National Fire Protection Association (U.S.A.)

Health Flammability
 Reactivity
 Specific hazard

WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Safety glasses.

Section 16. Other Information**MSDS Code** A3650**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 8/13/2013.

Verified by Sonia Owen.

Printed 8/13/2013.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.