



chem-supply

# Material Safety Data Sheet

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Infosafe No™ 1CH0P Issue Date :February 2009 -ISSUED by CHEMSUPP

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Product Name **ALUMINIUM POTASSIUM SULFATE**

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	ALUMINIUM POTASSIUM SULFATE	
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
<b>Address</b>	50 Bedford Street GILLMAN SA 5013 Australia	
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
<b>Recommended Use</b>	Dyeing (mordant), paper-making, matches, paints, tanning agent, waterproofing agent, purification of water, hardening agent, aluminium salts, food additive, hardening gelatin, baking powder, astringent, cement hardener, explosives, laboratory reagent.	
<b>Other Names</b>	<b><u>Name</u></b>	<b><u>Product Code</u></b>
	ALUMINIUM POTASSIUM SULFATE LR	AL039
	Alum	
	Aluminum potassium sulfate dodecahydrate	
	Exsiccated alum	
	Potash alum	
	Potassium alum	
	Potassium aluminium sulfate	
	Alum potassium	
	ALUMINIUM POTASSIUM SULFATE TG	AT039
<b>Other Information</b>	Kalinite	
	Potassium aluminium sulfate dodecahydrate	
	ALUMINIUM POTASSIUM SULFATE AR	AA039
	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.	

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	Not classified as hazardous NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
<b>Risk Phrase(s)</b>	Not classified as hazardous
<b>Safety Phrase(s)</b>	S22 Do not breathe dust. S24/25 Avoid contact with skin and eyes.
<b>Irritancy of Product</b>	May cause irritation to skin, eyes, respiratory system and digestive tract.
<b>Teratogenicity</b>	Evidence of teratogenic effects.
<b>Safety Hazards</b>	Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS



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<b>Chemical Characterization</b>	Solid				
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Aluminium potassium sulfate	7784-24-9	98-100 %		
<b>Other Information</b>	Commercially available as the anhydrous salt $AlK(SO_4)_2$ and as the hydrate $AlK(SO_4)_2 \cdot 12H_2O$ .				

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Remove the source of contamination or move the victim to fresh air. Seek medical attention if condition persists.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.
<b>Skin</b>	Immediately remove contaminated clothing and wash affected area with soap and water. Ensure contaminated clothing is washed before re-use. If irritation persists seek immediate medical attention.
<b>Eye</b>	If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelids(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops seek medical attention.
<b>First Aid Facilities</b>	Maintain eyewash fountain and drench facilities in work area.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## 5. FIRE FIGHTING MEASURES

<b>Specific Methods</b>	Use measures suitable for extinguishing surrounding fire.
<b>Specific Hazards</b>	Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
<b>Precautions in connection with Fire</b>	Use suitable protective equipment for surrounding fire.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spills &amp; Disposal</b>	Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
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## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Avoid contact with skin, eyes and clothing. Avoid inhalation and ingestion.
<b>Conditions for Safe Storage</b>	Store in well ventilated area. Store in a cool, dry place. Keep dry - reacts with water; may lead to drum rupture. Keep containers closed at all times.
<b>Corrosiveness</b>	When heated above 200 °C, this material will combine with moisture to form sulfuric acid. Sulfuric acid is corrosive to many metals.
<b>Additional information on precautions for use</b>	Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	<u>Name</u>	<u>STEL</u>		<u>TWA</u>		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Aluminium potassium sulfate	-	-	2	-	Aluminium, soluble salts (as Al)



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<b>Other Exposure Information</b>	A time weighted average (TWA) has been established for Aluminium, soluble salts (as Al) (Worksafe Aust) of 2 mg/m <sup>3</sup> . The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
<b>Engineering Controls</b>	Maintain concentration below recommended exposure limit. Use with local exhaust ventilation or while wearing appropriate respirator.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
<b>Body Protection</b>	Wear protective clothing to prevent skin contact. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Solid
<b>Appearance</b>	White powder or colourless crystal.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	92 °C
<b>Boiling Point</b>	Loses water at 60-65 °C; becomes anhydrous at 200 °C
<b>Solubility in Water</b>	Soluble (139 g/L @ 20 °C).
<b>Solubility in Organic Solvents</b>	Freely soluble in glycerol, dilute acid. Insoluble in alcohol and acetone.
<b>Specific Gravity</b>	1.75
<b>pH Value</b>	3.0-3.5 (100 g/l, H <sub>2</sub> O, 20 °C)
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	474.38
<b>Other Information</b>	Taste: Astringent Dielectricity constant: 3.8

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal use conditons.
<b>Incompatible Materials</b>	STRONG BASES - can react vigorously. Strong oxidising agents, Corrosive to metals (steels, alumium, copper, zinc) in the presence of water.
<b>Hazardous Decomposition Products</b>	Corrosive sulfuric acid, aluminum oxide and potassium oxides fumes.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Inhalation</b>	Irritating to the respiratory system, nose and throat. Symptoms include coughing, irritation and shortness of breath.
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<b>Ingestion</b>	May cause gastrointestinal irritation, stomach burns, nausea, vomiting, abdominal pain and diarrhea.
<b>Skin</b>	Causes irritation, redness, and pain in contact with skin.
<b>Eye</b>	Causes irritation, redness and pain.
<b>Chronic Effects</b>	NEUROTOXICITY: Introduction of aluminium compounds directly into the blood stream may contribute to the development of neurological effects resembling senility. Repeated ingestion of large doses of this material may cause an increase loss of phosphate in feces and increase deposits of aluminium in bone.
<b>Mutagenicity</b>	No evidence of mutagenic properties.
<b>Carcinogenicity</b>	No evidence of carcinogenic properties.

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	No ecological data available for this product.
<b>Persistence / Degradability</b>	No persistence/degradability data available for this product.
<b>Mobility</b>	No mobility data available for this product.

**13. DISPOSAL CONSIDERATIONS**

<b>Disposal Considerations</b>	Dispose of according to relevant local, state and federal government regulations.
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**14. TRANSPORT INFORMATION****15. REGULATORY INFORMATION**

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS).
<b>Poisons Schedule</b>	Not Scheduled

**16. OTHER INFORMATION**

<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
<b>Empirical Formula &amp; Structural Formula</b>	AlK(SO <sub>4</sub> ) <sub>2</sub> .12H <sub>2</sub> O
<b>Literature References</b>	Australian Government Department of Health and Ageing, 'Standard for the Uniform Scheduling of Medicines and Poisons No. 2', Commonwealth of Australia, August 2011. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995. Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'. Worksafe Australia, 'Hazardous Substances Information System, 2005'.



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Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]'.

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.

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