



Infosafe No™	1CH0R	Issue Date : February 2014	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **ALUMINIUM SULFATE**

Classified as hazardous

1. Identification

GHS Product Identifier	ALUMINIUM SULFATE	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
Recommended use of the chemical and restrictions on use	Sizing paper, lakes, alums, dyeing mordant foaming agent in fire foams, cloth fireproofing, white leather tannage, catalyst in manufacturing ethane, pH control in paper industry, water proofing agent for concrete, clarifier for fats and oils, lubricating compositions, deodoriser and decolouriser in petroleum refining, sewage precipitating agent, water purification, food additive, antiperspirants, agricultural pesticides and laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>
	ALUMINIUM SULFATE 14 Hydrate	AT038
	ALUMINIUM SULFATE 18 Hydrate	AA296
	ALUMINIUM SULFATE 18 Hydrate	AL296
	Aluminum trisulfate	
	Cake Alum	
	Patent Alum	
	Aluminium sulfate octadecahydrate	
Other Information	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. Hazard Identification

GHS classification of the substance/mixture	Eye Damage/Irritation: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H318 Causes serious eye damage.
Pictogram (s)	Corrosion



Precautionary statement – Prevention	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.
Other Information	POTENTIAL FOR ACCUMULATION: Ingested material is not easily absorbed. It reacts with phosphate, forming an insoluble compound which is readily passed out of the body. Inhaled dust may accumulate in the lungs until slowly cleared.

3. Composition/information on ingredients



Infosafe No™	1CH0R	Issue Date : February 2014	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **ALUMINIUM SULFATE**

Classified as hazardous

Chemical Characterization	Solid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Aluminium Sulfate 14 Hydrate	17927-65-0	100 %	Xi	R41
	Aluminium Sulfate 18 Hydrate	7784-31-8	100 %	Xi	R41

4. First-aid measures

Inhalation	Remove victim to fresh air. Seek medical advice if effects persist.
Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If vomiting occurs give further water to achieve effective dilution. Seek medical attention.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically.
Other Information	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

Suitable extinguishing media	Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Hazards from Combustion Products	Emits toxic fumes of aluminium oxide and sulfur oxides at temperatures above 770°C (decomposition).
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation of material. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.
Conditions for safe storage, including any incompatibilities	Store in original containers or in corrosion-resistant containers. Store in a cool, dry place. Keep containers tightly closed.
Corrosiveness	Corrosive to metals such as aluminium if in contact with moisture.

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) has been established for Aluminium, soluble salts (as Al) (Safe Work Australia) of 2 mg/m ³ . 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.
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	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.



Infosafe No™	1CH0R	Issue Date : February 2014	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **ALUMINIUM SULFATE**

Classified as hazardous

Eye Protection	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.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Body Protection	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.
Hygiene Measures	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

Form	Solid
Appearance	Colourless, white lustrous crystals or granules.
Odour	Odourless.
Melting Point	770 °C (decomposition)
Solubility in Water	Soluble (364 g/L @ 20 °C). Material hydrolyze in water to form sulfuric acid.
Solubility in Organic Solvents	Insoluble in alcohol.
Specific Gravity	1.69 at 17 °C (water = 1)
pH	2.5-4.0 (20 g/l, H ₂ O, 20 °C)
Flammability	Non combustible material.
Molecular Weight	666.42
Other Information	Taste: Sweet, Mildly astringent.

10. Stability and reactivity

Chemical Stability	Stable.
Conditions to Avoid	Corrosive to metals in the presence of water.
Incompatible Materials	Water, strong bases and strong oxidising agents.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, sulfur oxides.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May be harmful if ingested. Causes irritation of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract. Symptoms include of abdominal pain, diarrhea, nausea and vomiting. Concentrated solutions (over 20%) can cause burns of the mouth, nausea, vomiting, bleeding stomach, incoordination, muscle spasms and kidney injury.
Inhalation	May be harmful if inhaled. May cause irritation to mucous membranes and upper respiratory tract with acute symptoms as sore throat, shortness of breath, and coughing. High concentrations may cause congestion and constriction of airways.
Skin	May cause skin irritation with acute symptoms of redness, itching and pain.
Eye	May cause irritation, redness, pain and inflammation. Risk of serious damage to eyes.
Carcinogenicity	Not classified as a human carcinogen.
Chronic Effects	Prolonged or repeated exposure can cause irritation and numbing of the fingers. Repeated ingestion of this material may cause phosphate deficiency, which can weaken bones. Introduction of aluminium compounds directly into the blood stream may contribute to the development of neurological effects resembling senility.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	Adverse ecological effects cannot be excluded in the event of improper handling or disposal.
-------------------------------	--



Infosafe No™	1CH0R	Issue Date : February 2014	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **ALUMINIUM SULFATE**

Classified as hazardous

Environmental Protection	Do not allow product to enter drains, waterways or sewers.
---------------------------------	--

13. Disposal considerations

Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.
--------------------------------	---

14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
------------------------------	--

15. Regulatory information

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

16. Other Information

Literature References	<p>'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia, June 2013.</p> <p>Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.</p> <p>National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.</p> <p>'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.</p> <p>Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.</p> <p>Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.</p> <p>Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.</p> <p>Worksafe Australia, 'Hazardous Substances Information System, 2005'.</p> <p>Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances (2011)'.</p> <p>Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.</p>
------------------------------	---

Contact Person/Point	<p>Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:</p> <p>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.</p>
-----------------------------	---

Empirical Formula & Structural Formula	Al ₂ (SO ₄) ₃ ·14-18H ₂ O
---	--

Other Information	<p>Previously labelled as:</p> <p>R41 Risk of serious damage to eyes.</p> <p>S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S39 Wear eye/face protection.</p> <p>...End Of MSDS...</p>
--------------------------	--

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.