



Infosafe No™	1CHIP	Issue Date : November 2018	RE-ISSUED by CHEMSUPP
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Product Name : **ALUMINIUM HYDROXIDE**

Not classified as hazardous

1. Identification

GHS Product Identifier ALUMINIUM HYDROXIDE

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 Glass, ceramics, iron-free aluminum and aluminium salts, manufacture of activated alumina, base for organic lakes, flame retardants, mattress batting, cosmetics, paper coating, filler, rubber reinforcing agent, ion exchanger, emulsifier, mordant in dyeing, filtering medium, adsorbent, chromatography, printing inks, waterproofing fabrics, detergents, lubricants, packaging materials, water purification, antacid, toothpaste, glass, fireclay and pottery; laboratory reagent.

Other NamesNameProduct Code

Alumina trihydrate
Aluminium hydrate
Hydrated alumina
Hydrated aluminium oxide
Hydrargillite
ALUMINIUM HYDROXIDE LR

AL035

Other Information

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 Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

3. Composition/information on ingredients**Chemical** Solid**Characterization****Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Aluminium hydroxide	21645-51-2	99-100 %		
Quartz (crystalline silica)	14808-60-7	0-1 %		

4. First-aid measures

Inhalation Remove victim to fresh air. Employ artificial respiration if indicated. Seek medical attention.

Ingestion Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. Seek medical attention.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

Eye contact Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.

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

Specific Methods Use extinguishing media most appropriate for the surrounding fire.



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Specific hazards arising from the chemical Material does not burn.**Precautions in connection with Fire** Use suitable protective equipment for surrounding fire.**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 generating and inhaling dust. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated exposure.**Conditions for safe storage, including any incompatibilities** Store in a cool, dry place. Store in well ventilated area. Keep containers securely sealed and protected against physical damage. Keep container tightly closed**8. Exposure controls/personal protection**

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
Other Exposure Information	Quartz (crystalline silica)			0.1		
	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for this product. There is a blanket limit of 10 mg/m3 for dusts or mists when limits have not otherwise been established.					
	The TWA exposure standard for respirables crystalline silica in the form of quartz set by Safe Work Australia is 0.1 mg/m3.					
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. These methods should be used in preference to personal protective equipment.					
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.					
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.					
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.					
Body Protection	Wear suitable 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.					
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** White crystalline powder, balls or granules.



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Odour	Odourless.
Melting Point	300 °C
Solubility in Water	Insoluble.
Solubility in Organic Solvents	Insoluble in alcohol.
Specific Gravity	2.42 (@ 20 °C)
pH	~ 8 - 9 (100 g/L, H ₂ O, 20 °C) (10% slurry)
Vapour Pressure	< 0.1 hPa (20 °C)
Flammability	Non combustible material.
Molecular Weight	78.00
Other Information	Soluble in strong acids and strong alkalis. Absorbs acids and carbon dioxide. Forms a gel (Al ₂ O ₃ .xH ₂ O) on long contact with water. Releases water on heating.

10. Stability and reactivity

Chemical Stability	Stable.
Incompatible Materials	Strong acids, strong alkalis, chlorinated rubber and bismuth hydroxide.
Possibility of hazardous reactions	Contact with strong acids forms aluminium salts. Contact with strong bases forms aluminates. Contact with chlorinated rubber at elevated temperatures may cause violent reaction.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May be harmful if swallowed in large quantity. May cause nausea, abdominal irritation, pain, constipation and vomiting.
Inhalation	Dust may cause irritation to the nose and throat due to abrasion. High concentrations of dust may cause irritation to respiratory tract and lungs.
Skin	May cause skin irritation.
Eye	Irritating to eyes.
Carcinogenicity	This product may contain a small proportion of respirable crystalline silica as quartz. Crystalline silica has been classified by the International Agency for Research on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1) and may lead to silicosis or other lung diseases on prolonged exposure.
Chronic Effects	Repeated or prolonged skin contact may cause drying and cracking with possible dermatitis. Ingestion of large quantities for prolonged periods may cause phosphate depletion, especially if phosphate intake is low. This may cause loss of appetite, muscle weakness, muscular disease and softening of the bones. A link between aluminium and Alzheimer's disease, degenerative brain disease, has been suggested. Long term exposure to high dust concentrations may cause changes in lung function (pneumoconiosis) cause by <0.5um particles penetrating and remaining in the lung. Prime symptom is breathlessness with lung shadows on x-ray.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity	Due to the poor solubility of the product, no harmful effects on plants and/or aquatic organisms are to be expected when handled and used with due care and attention.
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13. Disposal considerations

Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.
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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.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
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Safety Data Sheet

infosafe
CS: 1.7.2

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Poisons Schedule Not Scheduled

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
 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.
 Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
 Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
 Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
 Safe Work Australia, 'Hazardous Substances Information System, 2005'.
 Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
 Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula Al(OH)₃
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