

Safety Data Sheet

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Infosafe No™ 1CHOS

Issue Date : August 2021 RE-ISSUED by CHEMSUPP

Product Name **ALUMINIUM POWDER**

Not classified as hazardous

1. Identification			
	ALUMINIUM POWDER		
GHS Product Identifier	ALOMINIOM POWDER		
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000		
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)		
E-mail Address	www.chemsupply.com.au		
Recommended use of the chemical and restrictions on use	Used in the manufacture of construction materials, containers, electrical equipment, appliances, explosives, photoengraving plates, permanent magnets, printing inks, automobile industry, aircraft industry, production of inorganic and organic aluminium chemicals, therapeutic and pharmaceutical agent, hydrate for water purification, reducing agent, cryogenic technology, paint, protective coatings, rocket fuel, catalyst and laboratory reagent.		
Other Names	Name Product Code		
	ALUMINIUM POWDER LR AL030		
Other Information	ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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 Identifi	cation		
GHS classification of	Not classified as hazardous according to the Approved Criteria for Classifying		

GHS classification of the substance/mixture	Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004] 3rd Edition, Safe Work Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
Other Information	Dangerous Goods Classification: This grade of aluminium atomised powder has been tested by an independent laboratory in accordance with the test procedures laid out in the ADG Code. The criteria for the 'dangerous when wet' classification is NOT met by this aluminium atomised powder, and accordingly has not been classified as a Dangerous Good. The decreased sensitivity to moisture and reactive nature of finely divided metal powders is due to a protective oxide layer.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Aluminium	7429-90-5	100 %
4. First-aid me	asures		
Inhalation	artificial respira		to fresh air immediately. Apply f breathing is difficult, give symptoms appear.
Ingestion			ely, repeat until all traces of OMITING. Seek medical advice if
Skin	Wash with plenty of	of soap and water. If ir	ritation occurs seek medical advice.
Print Date: 24/08/2021			CS+ 3 4 22

Print Date: 24/08/2021



Safety Data Sheet

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Product Name ALUMINIUM POWDER Not classified as hazardous 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 based on judgement of doctor and individual reactions the patient. Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1124 New Zealand 0800 764 766) or a doctor. 5. Fire-fighting measures Hazards from Under fire conditions this product will emit oxides of aluminium. Combustion Products Snall fire: Use dry chemical, soda ash, lime or sand. DO NOT USE WATER OR FOAM. If safe to do so, move undamaged containers from fire area. Large fire: Use DRX sand, dry chemical, soda ash or lime or withdraw and let fire burn. DO NOT USE WATER OR FOAM. Cocl containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers. Non flammable, however finely divided dust may form explosive mixtures in ai arising from the when exposed to heat or ignition source (DO NOT disturb burning dust). Fire demical Precautions in connection with Fire Wara SCBA and chemical splash suit. Structural firefighter's uniform may provide limited protection. 6. Accidental release measures ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within at least 25m. Do not touch or walk through spilled material. Stop leak if se to do so - Preve					
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	Personal Precautions	Avoid substance contact. Avoid generation of dusts: do not inhale dusts.			

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Sweep up (avoid generating dust) and using clean non-sparking tools transfer Clean-up Methods to a clean, suitable, clearly labelled container for disposal in accordance with local regulations. Small Spillages

7. Handling and storage

Precautions for Safe Handling	Avoid substance contact and generation and inhalation of dust. Contaminated clothing should be removed and washed before reuse. Take precautionary measures against static discharges. Electrostatic charges may be generated during handling; for example, when crushing, grinding, and sewing or emptying bags. Earth all equipment including funnels, chutes and drums. Extinguish any naked flames. Remove ignition sources. Avoid sparks. Do not smoke.
Conditions for safe storage, including any incompatibilities Unsuitable Materials	Store away from acids. Keep container tightly closed in a dry, well-ventilated place away from direct sunlight and other sources of heat or ignition. Store at room temperature (15 - 25 °C). Store away from bases. Store away from foodstuffs. Store away from chlorinated hydrocarbons. Metals - Aluminium is strongly electropositive so that it corrodes rapidly in contact with other metals.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	S	TEL	Т	WA	
exposure mint values		mg/m3	ppm	mg/m3	ppm	Footnote
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Product Name	ALUMINIUM	POWDER		
		Not classified as ha	zardous	
	Aluminium		10	(metal dust) (elemental)
Other Exposure Information	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Aluminium (metal dust - elemental) (Safe Work Australia) of 10 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	Maintain the concentrations values below the TWA. This may be achieved by			
Respiratory Protection	Avoid breat with AS 171 with AS 171 Devices. Fi event of em pressure, fi required, i	Lation is not adequate, resp thing dust, vapours or mists 6 - Respiratory Protective I 5 - Selection, Use and Maint Affective and respirator mergency or planned entry int full-facepiece SCBA should be institute a complete respirat	. Respiratory p Devices and be cenance of Resp c type depends to unknown conc e used. If resp cory protectior	protection should comply selected in accordance piratory Protective on exposure levels. In centrations a positive piratory protection is n program including

selection, fit testing, training, maintenance and inspection. The use of a face shield, chemical goggles or safety glasses with side shield **Eye Protection** protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

Personal protective equipment should not solely be relied upon to control risk **Personal Protective** and should only be used when all other reasonably practicable control measures Equipment 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.

Safety boots in industrial situations is advisory, foot protection should Footwear comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Flame retardant antistatic protective clothing. Clean clothing or protective **Body Protection** clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash

Hygiene Measures contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	Silvery-white, crystalline solid or grit.
Odour	Odourless.
Melting Point	660 °C
Boiling Point	2450 - 2467 °C
Solubility in Water	Insoluble.
Solubility in Organic Solvents	Insoluble in most organic solvents. Forms soluble salts with alkalis, sulfuric acid and hydrochloric acid. Insoluble in hot acetic acid and concentrated nitric acid.



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Product Name	ALUMINIUM POWDER		
	Not classified as hazardous		
Specific Gravity	2.7		
Molecular Weight	26.98154		
10. Stability and r	eactivity		
Chemical Stability	Bulk solid is stable. Dust forms explosive mixtures in air. Bulk dust when damp may heat spontaneously. Hazard is greater as size of particles decreases.		
Incompatible Materials	Water, strong acids (eg nitric acid) and alkalis (eg hydroxides), oxidizing materials (eg hypochlorites, peroxides), halogens, nitrates, sulfates, sulfides, alcohols, ammonium compounds, alkali hydroxides, alkali salts, halogenated hydrocarbons, semimetallic oxides, nonmetals, nonmetallic oxides, halogen-halogen compounds, metallic oxides, metallic salts, oxygen, mercury compounds, semimetallic halides and nonmetallic halides.		
Hazardous Decomposition Products	Aluminium oxides.		
Possibility of hazardous reactions	Bulk aluminum powder may heat spontaneously when wet and flammable hydrogen gas may form. Mixtures of aluminum powder and water can explode if detonated. Contact with strong acids and bases releases flammable hydrogen gas. Contact with oxidising agents may react violently or ignite. Contact with metals may cause rapid corrosion when wet. Mixtures with metal oxides react vigorously when ignited. Temperature may reach 2200 °C. Mixtures with halogens may ignite. Mixtures with halogenated hydrocarbons with heating or friction may cause explosive reaction. May react with alcohols when heated to form alkoxides.		
Hazardous Polymerization	Will not occur.		
11. Toxicological I	nformation		
Toxicology Information	High levels of aluminium in the diet may inhibit absorption of phosphorus into the body. Animals given about 1400 ppm aluminium in the diet had decreased phosphorus in the blood and bone.		
Acute Toxicity - Oral	Acute Exposure: LD50 values for aluminium ingestion are unavailable, because aluminium is only sparingly absorbed from the gut, causing death to occur from intestinal blockage due to precipitated aluminium species rather than systemic aluminium toxicity.		
Ingestion	Low toxicity. Causes irritation of the mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract and nausea and vomiting.		
Inhalation	High concentrations of dust may be physically irritating to the respiratory system and cause deposits of dust in nasal passages.		
Skin	May cause irritation by abrasion.		
Eye	Dust may cause irritation due to abrasion. May cause lachrymation, redness and pain. Particles lodged in the eye may cause conjunctivitis and corneal damage.		
Respiratory sensitisation	Not classified based on available information.		
Skin Sensitisation	Not classified based on available information.		
Germ cell mutagenicity	Not classified based on available information.		
Carcinogenicity	Not listed in the IARC Monographs. Not classified based on available information.		
Reproductive Toxicity	Not classified based on available information.		
STOT-single exposure	Not classified based on available information.		
STOT-repeated exposure	Not classified based on available information.		
Chronic Effects	Prolonged or repeated exposure to fine aluminium powder may cause asthma-like symptoms, scarring of lung tissue (lung fibrosis), brain damage (encephalopathy) and Alzheimers disease. Symptoms of lung injury include		



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	difficulty breathing, coughing, drowsiness, loss of appetite and rapid breathing. Inhaled aluminum particles may remain deposited in the lungs.		
12. Ecological info	ormation		
Known Harmful Effects on the Environment	No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.		
13. Disposal consid	derations		
Disposal Considerations Waste Disposal	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations. Dispose of according to relevant local, state and federal government regulations.		
14. Transport info	rmation		
Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous Goods Classification: This grade of aluminium atomised powder has been tested by an independent laboratory in accordance with the test procedures laid out in the ADG Code. The criteria for the 'dangerous when wet' classification is NOT met by this aluminium atomised powder, and accordingly has not been classified as a Dangerous Good. The decreased sensitivity to moisture and reactive nature of finely divided metal powders is due to a protective oxide layer.		
15. Regulatory inf	ormation		
Regulatory Information	All the constituents of this product are listed on the Australian Inventory o Chemical Substances (AICS), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.		
Poisons Schedule	Not Scheduled		
16. Other Informa			
Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealt of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminant		
Contact Person/Point	in the Occupational Environment'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: 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 completenes or accuracy to the information contained herein. ChemSupply Australia Pty Ltd 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.		

Empirical Formula & Structural Formula

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representatives.

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Not classified as hazardous

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