

Safety Data Sheet

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Infosafe No™ 1CHON

Issue Date : January 2021 RE-ISSUED by CHEMSUPP

Product Name ALUMINIUM NITRATE Nonahydrate

Classified as hazardous

ALUMINIUM NITRATE Nonahydrate			
CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264	211)		
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Tel: (08) 8440-2000			
CHEMCALL 1800 127 406 (Australia) / +64-4-91	17-9888 (International)		
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Textiles (mordant), leather tanning, manufacture of incandescent filaments, catalyst in petroleum refining, nucleonics, antiperspirant, nitrating agent, anticorrosion agent, uranium extraction and laboratory reagent.			
Name	Product Code		
ALUMINIUM NITRATE Nonahydrate AR Aluminum trinitrate	AA056		
ChemSupply Australia Pty Ltd does not warrant for any use or purpose. The user must ascerta before use or application intended purpose. I before use or application is recommended. Any upon ChemSupply Australia Pty Ltd with respec advice in relation to the suitability of this disclaimed. Except to the extent prohibited a any statute as to the merchantable quality of purpose is hereby excluded. This product is r provisions of Part V, Division 2 of the Trade liability of ChemSupply Australia Pty Ltd is	ain the suitability of the product Preliminary testing of the product y reliance or purported reliance ct to any skill or judgement or s product of any purpose is at law, any condition implied by f this product or fitness for any not sold by description. Where the e Practices Act apply, the		
	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 38 - 50 Bedford Street GILLMAN SA 5013 Australia Tel: (08) 8440-2000 CHEMCALL 1800 127 406 (Australia) / +64-4-9 www.chemsupply.com.au Textiles (mordant), leather tanning, manufac catalyst in petroleum refining, nucleonics, anticorrosion agent, uranium extraction and <u>Name</u> ALUMINIUM NITRATE Nonahydrate AR Aluminum trinitrate ChemSupply Australia Pty Ltd does not warran for any use or purpose. The user must ascert before use or application intended purpose. before use or application is recommended. An upon ChemSupply Australia Pty Ltd with respe advice in relation to the suitability of thi disclaimed. Except to the extent prohibited any statute as to the merchantable quality o purpose is hereby excluded. This product is provisions of Part V, Division 2 of the Trad		

statement – Disposal	
Precautionary	P501 Dispose of contents/container to an approved waste disposal plant.
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.
Prevention	
Precautionary statement –	P280 Wear eye protection/face protection.
Pictogram (s)	Corrosion
Hazard Statement (s)	H318 Causes serious eye damage.
substance/mixture Signal Word (s)	DANGER
GHS classification of the	Eye Damage/Irritation: Category 1

3. Composition/information on ingredients



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Ingredients	edients <u>Name</u> <u>CAS</u> <u>Proporti</u>						
	Aluminium nitrate nonahydrate	7784-27-2	100 %				
4. First-aid measu	ures						
Inhalation	If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If symptoms persist, obtain medical attention.						
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.						
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If rapid recovery does not occur, obtain medical attention						
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Obtain medical attention immediately.						
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 of the patient.						
Other Information	For advice, contact a P New Zealand 0800 764 76		on Centre (Phone eg Australia 13 1126;				

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire such as nitrogen oxides.
Specific Methods	Small fire: USE FLOODING QUANTITIES OF WATER. Do not use dry chemicals, CO2 or foam. If safe to do so, move undamaged containers from fire area. Do not move cargo if cargo has been exposed to heat. Large fire: Flood fire area with water from a protected position. Cool containers with flooding quantities of water until well after fire is out - If impossible, withdraw from area and let fire burn. Avoid getting water inside containers: a violent reaction may occur. Dam fire control water for later disposal.
Specific hazards arising from the chemical	Will accelerate burning when involved in a fire. May explode from heating, shock, friction or contamination. Can react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, clothing, etc). Fire may produce irritating, poisonous, and/or corrosive gases. Containers may explode when heated. Runoff may create fire or explosion hazard.
Hazchem Code	12
Decomposition Temp.	135 °C
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection. Full fire kit and breathing apparatus.

6. Accidental release measures

Spills & Disposal	Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use water spray to knock down vapours or divert vapour clouds. Prevent entry into waterways, drains or confined areas. Prevent exposure to heat. Dry Spill Use clean non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Move container from spill area. Small Liquid Spill Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal. Large Liquid Spill SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL
Personal Precautions	SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.



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Product Name ALUMINIUM NITRATE Nonahydrate							
		Clas	ssifie	ed as hazar	rdous		
Personal Protection	Wear protective	clothi	ng spe	cified for	normal opera	ations (see Section 8)	
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations. Do not use rags, sawdust or other combustible absorbents to wipe up spilled material.						
Environmental Precautions	May contribute to the eutrophication of water supplies. Hazard for drinking water.						
7. Handling and st	torage						
Precautions for Safe Handling						alation of dust.	
Conditions for safe storage, including any incompatibilities Corrosiveness	Store at room temperature (15 - 25 °C). Store away from combustible materials. Keep container tightly closed in a dry, well-ventilated place awa from direct sunlight and other sources of heat or ignition. Store away from sources of heat and ignition. Store away from organic and combustible materials. Keep containers closed when not in use. Will corrode some metals if combined with moisture.						
Storage Regulations		Austra	lian S	standard AS/	2	e and handling of oxidizing :2004 'Safety in	

Unsuitable Materials Some metals.

8. Exposure controls/personal protection

<u></u>	
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, soluble salts (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	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.
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	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. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
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.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection,
D 1 1 D 1 10 (01 (0007	

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Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
Body Protection	Flame retardant antistatic protective clothing. 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.
	care and use.

9. Physical and chemical properties

Form	Solid
Appearance	Deliquescent white crystals.
Decomposition Temperature	135 °C
Melting Point	73 °C
Solubility in Water	Very soluble.
Solubility in Organic Solvents pH	Very soluble in alcohol. Very slightly soluble in acetone. Almost insoluble in ethyl acetate and pyridine. 2-4 (50 g/l, H2O)
Flammability	Not combustible but assists combustion of other substances.
Molecular Weight	375.13
Oxidising Properties	Oxidiser.

10. Stability and reactivity

Chemical Stability	Stable.				
Conditions to Avoid	Moisture. High temperatures. Incompatibles.				
Incompatible Materials	Combustible material, reducing agents and metals.				
Hazardous Decomposition Products	Toxic nitrogen oxides and aluminium oxides.				
Possibility of hazardous reactions	May react violently in contact with combustible material, reducing agents, cyanides, easters, metals in powder form, strong acids and isocyanates. Contact with some metals may be explosive.				
Hazardous Polymerization	Will not occur.				

<u>11. Toxicological Information</u>

Toxicology Information	No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptoms or effects may occur.
Acute Toxicity - Oral	LD50 Oral - Rat - 3,263 mg/kg (OECD Test Guideline 401)
Ingestion	Ingestion may cause nausea, vomiting and absorption. Symptoms after absorption of toxic quantities may include dizziness, stomach irritation, abdominal cramps, diarrhea, weakness, CNS disorders, methaemoglobinaemia, convulsions and collapse.
Inhalation	May irritate the nose and throat. Symptoms may include sore throat, coughing and shortness of breath.
Skin	May be slightly irritating to skin. May cause redness and pain.
Eye	Causes serious eye damage.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.

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Product Name	ALUMINIUM NIT	RATE Nonahy	ydrate			
		Classifie	ed as hazar	dous		
Germ cell mutagenicity	Not classified b	based on avai	lable infor	mation.		
Carcinogenicity	Not classified b	based on avai	lable infor	mation.		
Reproductive Toxicity	Not classified b	based on avai	lable infor	mation.		
STOT-single exposure	Not classified b	based on avai	lable infor	mation.		
STOT-repeated exposure	Not classified b	based on avai	lable infor	mation.		
Chronic Effects	Repeated ingest: and mental impa: deficiency.					
Serious eye damage/irritation	Eye Damage/Irrit H318 Causes ser:	-	-			
Mutagenicity	Not classified b	based on avai	lable infor	mation.		

Other Information	Introduction of aluminium compounds directly into the blood stream may	
	contribute to the development of neurological effects resembling senility.	

12. Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available.		
Persistence and degradability Mobility	Methods for the determination of biodegradability are not applicable to inorganic substances. Due to its solubility will be highly mobile in soils.		
Information on Ecological Effects	The following applies to aluminium compounds in general: for acidic aluminium compounds: biological effects: toxic for water organisms. In the case of alkaline aluminium compounds, flocculation may cause mechanical damage in aquatic organisms. The following applies to nitrates in general: may contribute to the eutrophication of water supplies. Hazard for drinking water.		
Environmental Protection	Do not allow to enter waters, waste water, or soil!		

13. Disposal considerations

Disposal	Whatever cannot be saved for recovery or recycling should be disposed of
Considerations	according to relevant local, state and federal government regulations.

14. Transport information

Transport Information	Dangerous goods of Class 5.1 (Oxidizing Agent) are incompatible in a placard load with any of the following: Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and Combustible liquids.
U.N. Number	1438
UN proper shipping name	ALUMINIUM NITRATE
Transport hazard class(es)	5.1
Hazchem Code	1Z
Packing Group	III
EPG Number	5A1
IERG Number	31

15. Regulatory information

RegulatoryAll the constituents of this product are listed on the Australian Inventory of
Chemical Substances (AICS), or exempted. Not listed under WHS Regulation
2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and



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	restricted	hazardous	chemicals.
Poisons Schedule	Not Schedul	led	

16. Other Information

Literature	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth
References	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 fot 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 Contaminants in the Occupational Environment'.
Contact Person/Point	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 completeness 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	Al (NO3) 3 • 9H2O

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