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Infosafe No™ JXF38

Issue Date :April 2014

RE-ISSUED by THERMOF

Product Name ALUMINIUM NITRATE

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER ALUMINIUM NITRATE **Product Name** 17 **Product Code** Thermo Fisher (ABN 64 121 927 786) **Company Name** 5 Carribean Drive Address (PO Box 9092) Scoresby VIC 3174 Australia 1800 638 556 (24 hr) Aust / (NZ): 0800 154 666 **Emergency Tel.** Tel: 1300 884 078 **Telephone/Fax** Number toms@ajaxfinechem.com Email Not available. **Recommended Use** Product Code **Other Names** Name ALUMINIUM NITRATE 901 ALUMINIUM NITRATE 10193 10736 ALUMINIUM NITRATE NEW ZEALAND: Thermo Fisher Scientific New Zealand Limited **Other Information** 244 Bush Road, Albany, Auckland Phone: 09 980 6700 Fax: 09 980 6788 Emergency Advice (NZ): Phone 0800 154 666 2. HAZARDS IDENTIFICATION Classified as hazardous Hazard Classification Australia: Classified as Hazardous, according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC). Classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. New Zealand: Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand. Classified as Dangerous Goods for transport, according to the NZS 5433:2007 Transport of Dangerous Goods on Land. HSNO Classification: 5.1.1C - Oxidising substance that are solids or liquids: low hazard. 6.3A - Substance that is irritating to the skin. 6.4A - Substance that is irritating to the eye. Hazard statement code: H272 May intensify fire; oxidizer. Causes skin irritation. H315 H320 Causes eye irritation. Precautionary statement codes- prevention: P103* Read label before use. - This statement applies only where the substance is available to the general public. P104 Read Safety Data Sheet before use. P210 Keep away from heat/sparks/open flames/hot surfaces. P220 Keep/Store away from clothing/reducing agents/combustible materials. P221 Take any precaution to avoid mixing with combustibles. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection*. P280 Wear protective gloves/protective clothing/eye protection/face protection. Precautionary statement codes- Response: P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

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Product Name	ALUMINIUM N	IITRATE				
		Clas	sified as h	azardous		
	Remove conta P321 Specifi			nd easy to do	. Continue rins	sing.
	P332+P313 If	skin irrit	tation occurs		l advice/ attent	
				s: Get medic and wash bef	al advice/attent ore re-use	zion.
	Precautionar	y statement	t codes - Sto	rage:		
			t codes - Dis substance th		liance with a HS	SNO approval
	other than a	Part 6A (0	Group Standar	ds) approval,	a label must pr	rovide a
					vable methods fo Substances (Disp	
	Regulations				od of disposal t	
Risk Phrase(s)	avoided. Classified a	s hazardou:	S			
Misk I III asc(s)	R36/38 Irrit	ating to eg	yes and skin.			
Safaty Dhrasa(s)			tible materia ith skin and	l may cause f	ire.	
Safety Phrase(s)					ely with plenty	of water and
	seek medical	advice.				
3. COMPOSITIO	N/INFORMAT	'ION ON IN	GREDIENTS			
Ingredients	Name		CAS	Proportion	Hazard Symbol	<u>Risk Phrase</u>
	Aluminium Ni Nonahydrate	trate	7784-27-2	60-100 %		
4. FIRST AID MI	EASURES					
Inhalation	Remove the s	ource of co	ontamination	or move the v	ictim to fresh a	air. Ensure
					oxygen through	
Ingestion					medical attent: r. Do not give a	
-					edical attention	
Skin					d thoroughly wit is washed before	
	discard. If	contact is	more than of	minor nature	, seek medical a	attention.
Eye					ious amounts of ted water into t	
				st seek medic		2116
First Aid Facilities	Eye wash fou	ntains and	normal washr	coom facilitie	s.	
Advice to Doctor	Treat sympto	matically.				
5. FIRE FIGHTI	NG MEASURE	S				
Suitable		foam, car	oon dioxide c	or dry powder.		
Extinguishing Media Hazards from		onditions '	this product	may emit toxi	c and/or irritat	ting fumes
Combustion	including ni		-		0 4114, 01 111104	2119 20000
Products Specific Hazards	Contact with	combustib	le material m	ay cause fire		
Hazchem Code	1Y				-	
Precautions in	Fire fighter	s should we	ear full prot	ective clothi	ng and self-cont	tained
connection with Fire					pressure mode.	
6. ACCIDENTAL	L RELEASE MI	EASURES				
Other Information					. Wear sufficier	
					ise skin and eye tion or dampen s	
	material wit	h water to	avoid airbor	ne dust. Seal	all wastes in v	vapour tight
					l. If large quar mental Protectio	
			nagement Auth		mentar riotecti	, AUCHOLICY,
7 HANDLING A						

7. HANDLING AND STORAGE

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Product Name	ALUMINIUM	NITRATE				
		Clas	sified	l as haz	ardous	
Precautions for Safe Handling	emergency e containers. protective	quipment (fo Keep conta equipment to	or fire iners c o preve	es, spill closed wh ent inhal	s, leaks, en not in ation, sk	with adequate ventilation. Have etc.) readily available. Label use. Wear appropriate in and eye contact. Ensure a hen using this product. That is;
Conditions for Safe Storage	Store in a moisture. S tightly clo	cool, dry, s tore in labe sed. Store a	well-ve elled, away fr	entilated corrosic com water	l area, ou n-resista and othe	king or using the toilet. t of direct sunlight and nt containers. Keep containers r incompatible materials. Have d near the storage area.
8. EXPOSURE C	ONTROLS/PE	RSONAL P	ROTEC	TION		
National Exposure Standards	Australian Occupationa Labour. How mg/m ³ (for applies to	National Oco l Safety and ever, the e: inspirable o poth Austra	cupatic d Healt xposure dust) a lia anc	onal Heal Ch Servic standar Ind 3 mg/ New Zea	th & Safe e (OSH) c d for dus m ³ (for r land.	r this material by the ty Commission (NOHSC) or the f the New Zealand Department of t not otherwise specified is 10 espirable dust). The limit th and Safety Commission
Engineering Controls	As publishe TWA - the working day According t health of,	Time-Weighte , for a five o current ki nor cause un icient vent:	ed Aver e-day w nowledg ndue di ilatior	rage airb working w ge these scomfort to keep	orne conc week over concentra to, near airborne	afety and Health Service (OSH): entration over an eight-hour an entire working life. tions should neither impair the ly all workers. concentrations below exposure required.
Respiratory Protection	Where suffi an AS 1716 appropriate concentrati according t this decisi	cient venti approved P1 breathing p ons and the o individua. on. Reference Use and main	lation or P2 protect type c l circu ce shou ntenanc	is not a particul ion is d of breath mstances uld be ma ce of Res	vailable, ate filte lependant ing prote . Expert de to Aus piratory	avoid breathing dust by wearing r respirator. Final choice of upon actual airborne ction required will vary advice may be required to make tralian Standards AS/NZS 1715, Protective Devices; and AS/NZS
Eye Protection	Safety glas recommended according t controls an	ses with sid . Final cho: o individua d according h Australia	de shie ice of l circu to ris n/New Z	elds, gog appropri mstances sk assess	gles or f ate eye/f i.e. met ments und	ull-face shield as appropriate ace protection will vary hods of handling or engineering ertaken. Eye protection should S/NZS 1337 - Eye Protectors for
Hand Protection	Wear gloves appropriate methods of	of impervio gloves will handling or ade to AS/N	ous mat l vary accord	accordin ling to r	ig to indi isk asses	prene rubber. Final choice of vidual circumstances i.e. sments undertaken. Reference protective gloves - Selection,
Body Protection	Suitable wo overalls bu of plastic	rkwear shou ttoned at ne aprons and :	eck and rubber	l wrist.	When larg	rsonal clothing, eg cotton e quantities are handled the use ded.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless, crystalline solid.
Odour	Weak odour.
Melting Point	73°C
Boiling Point	Not available.
Solubility in Water	730.0 g/l @ 20°C
pH Value	2.5 to 3.5 @ 20°C (5% solution)
Density	Approximately 1100 kg/m3.
Flash Point	Not applicable

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Product Name	ALUMINIUM NI	TRATE		
		Classified a	as hazardous	
Flammability	Mixtures with	combustible mater	ial are readily	ignited and may burn fiercely.
Auto-Ignition Temperature	Not applicable			
Flammable Limits - Lower	Not applicable			
Flammable Limits - Upper	Not applicable			
Molecular Weight	375.13			

Other Information The product is hygroscopic.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Reducing agents.
Hazardous Decomposition	Nitrous gases.
Products Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Acute toxicity: LD50 (oral, rat) = 3671 mg/kg LD50 (oral, mouse) = 3980 mg/kg Irritant effects on eyes Species: rabbit Evaluation: Strongly irritant Source: Literature value
Inhalation	Inhalation of product may cause irritation of the nose, throat and respiratory system.
Ingestion	Ingestion of this product may irritate the gastric tract, causing nausea and vomiting
Skin	Irritating to skin resulting in redness and itching.
Eye	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Not known.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data is available for this material.
Persistence / Degradability Mobility	Not available.
Environ. Protection	Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Transport	AUSTRALIA:
Information	This material is a Class 5.1 - Oxidising Agent according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. This material is
	 - Class 1, Explosive - Class 2.1, Flammable gases - Class 2.3, Toxic gases

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Product Name	ALUMINIUM NITRATE
	Classified as hazardous
	 Class 3, Flammable liquids Class 4.1, Flammable Solids Class 4.2, Spontaneously combustible substances Class 4.3, Dangerous When wet Class 5.2, Organic peroxides Class 6.1, Toxic substances and Class 6.2 Infectious Substances (where the substances are fire risk substances) Class 7, Radioactive materials unless specifically exempted. Class 8, Corrosives Class 9, Miscellaneous substances (where the miscellaneous dangerous goods are fire risk substances), and Combustible Liquids.
	<pre>NEW ZEALAND: This material is classified as a Class 5.1 Oxidising Substance according to NZS 5433:2007 Transport of Dangerous Goods on Land. This material must not be loaded in the same freight container or on the same vehicle with: - Class 1, Explosive - Class 2.1, Flammable gases - Class 2.3, Toxic gases - Class 3, Flammable liquids - Class 4.2, Spontaneously combustible substances - Class 4.3, Dangerous When wet - Class 5.2, Organic peroxides - Class 6.2, Infectious substances - Class 6.2, Infectious substances - Class 8, Corrosives Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with: - Class 6.1, Toxic Substances - Class 6.1, Toxic Substances - Class 7, Radioactive Materials unless specifically exempted Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with: - Flammable Liquids (Class 3), - Class 4.1, Flammable Solids - Class 4.2, Spontaneously Combustible Substances - Class 4.3, Dangerous When Wet Substances - Class 5.2, Organic Peroxides - Class 6.1, Toxic Substances - Class 6.2, Infectious Substances - Class 6.2, Infectious Substances</pre>
U.N. Number	- Class 8, Corrosive Substances 1438
Proper Shipping Name DG Class	ALUMINIUM NITRATE
Hazchem Code	1Y
	3.8.5.1
Packaging Method	III
Packing Group	
EPG Number	5A1
IERG Number	31

15. REGULATORY INFORMATION

Regulatory Information	Australia: Classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC).
Poisons Schedule	Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) Not Scheduled

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CS: 1.4.93

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Product Name	ALUMINIUM	NITRATE				
		Cla	ssifie	d as haz	ardous	
National and or International Regulatory Information	New Zealand: Classified as Hazardous according to the Hazardous Substances (Minimum degrees of hazard) Regulations 2001. Group standard: Oxidising [5.1.1] Substances Group Standard 2006 HSNO Approval Number: HSR002631					
Hazard Category	Irritant, Oxidising					
16. OTHER INFO	ORMATION					
Date of preparation or last revision of MSDS	MSDS Reviewed: July 2008 MSDS Created: August 2003					
Contact Person/Point	For further information contact Tom Sadler on 1300 884 078 during business hours. In case of emergency call Australia 1800 638 556/ New Zealand 0800 154 666.					
	IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ajax Finechem Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. End Of MSDS					

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