

MATERIAL SAFETY DATA SHEET

ALUMINIUM ATOMISED GRIT MSDS No: 560 Issue: 3 Page: 1 of 4 AUGUST, 2005

PRODUCT NAME: ALUMINIUM ATOMISED GRIT							
CHEMICAL NAME / SYNONYMS : Aluminium Atomised Granules Used to deoxidise steel in steel foundries. Also in the manufacture of lightweight, alloyed components.							
NON-HAZARDOUS							
HAZARD CLASSIFICATION : Not Classified as hazardous according to criteria of Worksafe Australia							
UN No	AUSTRALIAN CODE SUBSTANCE NAME	CLASS	SUB-RISK	HAZCHEM CODE	PACKAGING GROUP	EPG	POISONS SCHEDULE
None Allocated	NONE ALLOCATED						

INGREDIENTS:

CHEMICAL ENTITY	CAS No	PROPORTION
Aluminium, Atomised - Al	7429-90-5	> 60% Wt/Wt

PHYSICAL DATA

APPEARANCE & ODOUR : Silvery-white Grit. Odourless		
BOILING POINT °C :	2450-2467 deg. C	MELTING POINT : 550 - 660 Deg. C
VAPOUR PRESSURE :	Negligible	Sp. Gr. @ 20 deg. C.: 2.65 - 2.75 Kg/Ltr
VAPOUR DENSITY (AIR=1)	Not Applicable	SOLUBILITY : Insoluble in water or alcohol but slowly reacts.

**Emergency Telephone Numbers : Business hours : (02) 9601 6153, (07) 3266 6266
: 0409 725 448
After Hours : (02) 9601 6153
: 0409 725 448; 0418 880 375**

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT :	Not Applicable	
EXPLOSION LIMITS % IN AIR BY VOLUME	LOWER	UPPER
	Not Available	
EXTINGUISHING MEDIA :	<p>Non-flammable. However, finely divided dust may form explosive mixtures in air when exposed to heat or ignition source. Toxic gases may be evolved when heated.</p> <p>If involved in fire, use dry chemical, soda ash or sand.</p> <p>Fire fighters should wear self contained breathing apparatus.</p> <p><u>DO NOT use water or foam.</u></p>	
SPECIAL FIRE FIGHTING PROCEDURES :	<p>Fire fighters must wear full protective equipment including self-contained breathing apparatus.</p>	
UNUSUAL FIRE AND EXPLOSION HAZARD :	<p>Toxic fumes may be evolved. Fires may re-ignite. Withdraw from area and let fire burn out.</p> <p>Do Not disturb burning material.</p>	

REACTIVITY DATA

STABILITY :	STABLE	XX	CONDITIONS TO AVOID :	None
	UNSTABLE			
INCOMPATIBILITY : (MATERIALS TO AVOID)			Incompatible with acids, alkalis & water, oxidising agents, alcohol and chlorinated hydrocarbons	
HAZARDOUS DECOMPOSITION PRODUCTS :			Evolves highly flammable hydrogen and toxic fumes	
HAZARDOUS POLYMERISATION :			None	
WILL OCCUR		WILL NOT OCCUR	XX	CONDITIONS TO AVOID :
				None

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : In dust forms, 10mg / M3 as nuisance (Al) dust	
<u>EFFECTS OF EXPOSURE</u>	
EYE (CONTACT)	Abrasive effects and moderately irritant to eyes
SKIN (CONTACT & ABSORPTION)	Low irritant. Slight abrasive effects and prolonged or repeated exposure may cause irritation.
INHALATION (BREATHING)	In dust form - Irritant. Over exposure to dusts may result in mucous membrane irritation. Under controlled conditions of use no adverse health effects are anticipated. Some studies report that prolonged chronic exposure to fine aluminium dust may cause asthma-like symptoms, lung fibrosis and link with Alzheimers disease.
INGESTION (SWALLOWING)	Low toxicity. May result in gastrointestinal irritation, nausea and vomiting.
OTHER HEALTH HAZARDS :	None known
<u>FIRST AID</u>	
EYE (CONTACT)	Irrigate eyes with clean flowing water so as to remove particles immediately and continuously for 15 minutes. If discomfort persists seek medical advice.
SKIN (CONTACT & ABSORPTION)	Remove contaminated clothing. Wash skin areas with soap and clean water. Seek medical advice if irritation persists.
INHALATION (BREATHING)	Remove person to fresh air. Seek medical attention if symptoms develop.
INGESTION (SWALLOWING)	Do Not induce vomiting. Seek medical attention.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED :	Remove all ignition sources. Use spark proof equipment and without generating dust contain spilled material for salvage and collect in suitable dry containers. For large spillage wear a full-face respirator for protection against inhalation and use rubber gloves. Do Not contact with or use water to hose and clean up the area as it will evolve hydrogen gas.
WASTE DISPOSAL METHOD :	Do Not contaminate drains or waterways. Consult EPA or local Waste Disposal Authority.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	None required under normal controlled usage conditions. In case of exposure to high dust conditions wear full-face Class P3 Particulate or air-supplied respirator, especially when working in excessively dusty conditions over prolonged periods.	
VENTILATION: Provide good ventilation in all work areas.	LOCAL EXHAUST XXX	SPECIAL :
	MECHANICAL (general) XX	OTHER :
PROTECTIVE GLOVES : Rubber or leather	EYE PROTECTION : Safety glasses	
OTHER PROTECTIVE EQUIPMENT :	None	

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN STORING AND HANDLING	<ul style="list-style-type: none"> - Store in a cool, dry place. Keep away from source of heat and ignition. - DO NOT allow to contact with water, alcohol, acids, alkalies, oxidising agents or chlorinated hydrocarbons. - Handle with care and DO NOT generate dust. - Must use respiratory protection when working in dusty conditions, especially where prolonged or repeated exposures can occur.
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