

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name ALUMINIUM ATOMISED GRIT

Synonyms ALUMINUM ATOMISED GRIT • ATOMISED GRIT

1.2 Uses and uses advised against

Uses LABORATORY APPLICATIONS ● LABORATORY REAGENT ● METAL ALLOYS ● METAL WORK ●

METALLURGY APPLICATIONS • SURFACE COATING

1.3 Details of the supplier of the product

Supplier name AUSTRALIAN METAL POWDERS SUPPLIES PTY LTD
Address 32 Carrington Road, Guildford, NSW, 2161, AUSTRALIA

Telephone (02) 9681 6155

Email <u>sales@metalpowders.com.au</u>

Website http://www.metalpowders.com.au

1.4 Emergency telephone numbers

Emergency 13 11 26 (Poisons Information Centre)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

2.3 Other hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
ALUMINIUM	7429-90-5	231-072-3	100%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

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swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.

First aid facilities None allocated.



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4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Dry agent, soda ash, sand or lime. Do not use water or foam. Withdraw from area and let fire burn out. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

Non flammable. However, fine aluminium powder may be explosive if dispersed into a dust cloud in air in the presence of an ignition source

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Fires may re-ignite during extinguishing process. Finely divided dust may form explosive mixtures in air when exposed to heat or ignition source (DO NOT disturb burning dust). Do not disturb burning dust and create dust clouds as oxygen will mix with the hot metal and may cause an explosion.

5.4 Hazchem code

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. CAUTION: May evolve flammable gases in contact with water. Eliminate all sources of ignition.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Eliminate all sources of ignition. Collect and place in dry, clean, pressure vented, metal containers for re-use or disposal. Use spark proof equipment and shovels.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

7.3 Specific end uses

No information provided.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
ingredient	Kelefelice	ppm	mg/m³	ppm	mg/m³
Aluminium & compounds	SWA [Proposed]		1		
Aluminium (metal dust)	SWA [AUS]		10		

Biological limits No Biological Limit Value allocated.

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof

extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE

Eye / Face Wear dust-proof goggles. **Hands** Wear PVC or rubber gloves.

Body When using large quantities or where heavy contamination is likely, wear coveralls.

Respiratory Where an inhalation risk exists, wear a Class P1 (Particulate) respirator. At high dust levels, wear a

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Powered Air Purifying Respirator (PAPR) with Class P3 (Particulate) filter or a Full-face Class P3

(Particulate) respirator.





9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance LIGHT GREY POWDER
Odour SLIGHT ODOUR
Flammability NON FLAMMABLE
Flash point NOT RELEVANT
Boiling point 2450°C to 2467°C

Melting point 660°C

Evaporation rateNOT AVAILABLEpHNOT AVAILABLEVapour densityNOT AVAILABLE

Specific gravity 2.7

Solubility (water) **INSOLUBLE** Vapour pressure **NOT AVAILABLE Upper explosion limit NOT AVAILABLE** Lower explosion limit **NOT AVAILABLE Partition coefficient NOT AVAILABLE Autoignition temperature NOT AVAILABLE Decomposition temperature NOT AVAILABLE NOT AVAILABLE Viscosity NOT AVAILABLE Explosive properties NOT AVAILABLE** Oxidising properties **NOT AVAILABLE** Odour threshold

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.



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PRODUCT NAME **ALUMINIUM ATOMISED GRIT**

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid) and alkalis (e.g. sodium hydroxide).

10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Based on available data, the classification criteria are not met. **Acute toxicity** Skin Contact may result in mechanical irritation, redness and rash. Contact may result in mechanical irritation, lacrimation and redness. Eve

Sensitisation Not classified as causing skin or respiratory sensitisation.

Mutagenicity Not classified as a mutagen. Carcinogenicity Not classified as a carcinogen. Not classified as a reproductive toxin. Reproductive

STOT - single

Over exposure may result in mucous membrane irritation of the respiratory tract, with coughing.

exposure

STOT - repeated

Not classified as causing organ damage from repeated exposure. Some studies report that repeated exposure

exposure to fine aluminium dust may result in asthma-like symptoms, lung fibrosis (restricting lung function)

and a link with Alzheimers disease.

Not classified as causing aspiration. **Aspiration**

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Not expected to be dangerous to the aquatic environment.

12.2 Persistence and degradability

Limited information was available at the time of this review.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

Limited information was available at the time of this review.

12.5 Other adverse effects

Aluminium in soil may be present as the metal, the oxide or hydroxide, the 3+ ion, or the 3+ ion as an organic complex. The mobility in soil will be greater at high or low soil pH.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Recycle where possible. Collect without generating dust. Eliminate all sources of ignition. Place in clean,

sealed containers and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional

information (if required). CAUTION: May evolve flammable gases upon contact with water.

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Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION



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NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

Not a Marine Pollutant

14.6 Special precautions for user

Hazchem code None allocated.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

Inventory listings AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

DANGEROUS GOODS CLASSIFICATION: An independent laboratory has tested all grades of aluminium atomised powder in accordance with the detailed test procedures laid down in the ADG Code. Aluminium atomised powder does NOT meet the criteria for the "dangerous when wet" classification, and accordingly these powders have not been classified as Dangerous Goods. Finely divided metal powder has a protective oxide layer which reduces the materials reactive nature and moisture sensitivity.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

ChemAlert.

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Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide
IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

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