

Watheroo Minerals Calcium Bentonite

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name Calcium Bentonite Clay
Other Names ALOSCA Granules, Bentonite A, Kitty Litter, Bentonite

1.2 Uses

Industrial/agricultural mineral clay, soil amendment, carrier, absorbent and general mineral product. Not for food, therapeutic or cosmetic use unless separately approved.

1.3 Details of the supplier of the product

Supplier name Watheroo Minerals
Address Martin Road, Gunyidi, Western Australia 6513
Telephone 0487 776 022
Email sales@alosca.com.au
Website www.bentonitewa.com.au

1.4 Emergency telephone numbers

Australia: 000 for emergency services
Poisons Information Centre: 13 11 26
Supplier emergency contact: 0487 776 022

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Physical Hazards

Not classified as a Physical Hazard

Health Hazards

Carcinogenicity: Category 1A

Specific Target Organ Toxicity (Repeated Exposure): Category 1

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word DANGER

Pictograms



Hazard statements

H350i May cause cancer by inhalation.
H372 Causes damage to organs through prolonged or repeated exposure.

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Prevention statements

- P201** Obtain special instructions before use.
- P202** Do not handle until all safety precautions have been read and understood.
- P260** Do not breathe dust.
- P264** Wash thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P280** Wear protective gloves/protective clothing/eye protection/face protection.
- P284** Wear respiratory protection for particles (P3/N95 or higher).

Response statements

- P308 + P313** If exposed or concerned: Get medical advice/ attention.

Storage statements

- P405** Store locked up.

Disposal statements

- P501** Dispose of contents/container in accordance with relevant regulations.

2.3 Other hazards

The product as supplied is classified as non-hazardous under normal conditions and does not present an inhalation, ingestion, skin, or eye hazard. However, dust created when the product is handled or milled may cause mechanical irritation and may contain crystalline silica, some of which may be respirable. Repeated exposure to respirable crystalline silica dust may cause lung fibrosis (silicosis).

NOTE: The classifications provided are reflective of the product once dust is present.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	<4%
CALCIUM BENTONITE / MONTMORILLONITE CLAY	1302-78-9	-	>96%

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Eye** (Dust exposure) Flush gently with running water, irrigating under eyelids. Seek medical attention if irritation develops.
- Inhalation** (Dust exposure) If inhaled remove from contaminated area. Apply artificial respiration if not breathing.
- Skin** (Dust exposure) Gently flush affected areas with water. Seek medical attention if irritation develops.
- Ingestion** Rinse mouth. Do not induce vomiting. Give water if conscious. Seek medical advice if symptoms occur.
- First aid facilities** Eye wash facilities and safety shower should be available, particularly when dust is generated.

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4.2 Most important symptoms and effects, both acute and delayed

This product may present a hazard if dust is generated.

CAUTION: Repeated exposure to dust may cause lung fibrosis (silicosis).

4.3 Immediate medical attention and special treatment needed

Treat symptomatically. Consider dust exposure history, respirable crystalline silica exposure and respiratory health monitoring where repeated exposure has occurred.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.

5.3 Advice for firefighters

No fire or explosion hazard exists.

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.

6.2 Environmental precautions

Prevent large quantities entering drains or waterways where practicable.

6.3 Methods of cleaning up

Use wet sweeping, misting, HEPA vacuum or enclosed mechanical collection. Avoid dry sweeping or compressed air. Collect in labelled containers for reuse or disposal.

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.

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7.2 Conditions for safe storage, including any incompatibilities

Ensure material is adequately labelled and protected from physical damage. Avoid generating dust.

7.3 Specific end uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	CAS	Reference	Australian workplace exposure standard
Respirable Crystalline Silica (quartz)	14808-60-7	SWA [AUS]	0.05 mg/m ³ , 8-hour TWA. Exposure must not exceed this standard.

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Wet where possible. Maintain dust levels below the recommended exposure standard.

PPE

Eye / Face Safety glasses with side shields or goggles where dust is generated.

Hands Work gloves and long sleeves recommended to prevent drying/irritation.

Respiratory Use AS/NZS 1716 approved particulate respirator. P2 minimum for dusty work; P3 or powered air purifying respirator for higher or prolonged exposure. Respiratory protection program should follow AS/NZS 1715.

Hygiene Do not eat, drink or smoke in dusty areas. Wash hands and face after handling and before breaks.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Property	Typical value
Appearance	Fine to granular off-white/grey/brown mineral clay powder or granules
Odour	Odourless to earthy
pH	Typically neutral to mildly alkaline in water slurry
Melting point/freezing point	Not applicable / mineral solid
Boiling point	Not applicable
Flash point	Non-flammable
Flammability	Non-combustible
Vapour pressure	Not applicable
Relative density	Approx. 2.0-2.7 g/cm ³ mineral density; bulk density varies by grade
Solubility	Insoluble; swells/disperses in water
Particle size	Variable by product grade; fine fractions may generate respirable dust
Explosive/oxidising properties	Not explosive; not oxidising

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10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal handling and storage.

10.2 Chemical stability

Stable mineral product.

10.3 Possibility of hazardous reactions

No hazardous polymerisation or known hazardous reactions under normal use.

10.4 Conditions to avoid

Dust generation; uncontrolled airborne dust; excessive moisture where caking affects handling.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

None expected under normal conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	This product is expected to be of low toxicity. Ingestion is considered unlikely due to product form.
Skin	Mechanical irritant. Prolonged or repeated contact may result in mild irritation due to mechanical action.
Eye	Mechanical irritant. Due to product form and nature of use, the potential for exposure is reduced. Product may only present a hazard if material is cut, drilled or sanded with dust generation, which may result in mechanical irritation.
Sensitisation	Not classified as causing skin or respiratory sensitisation.
Mutagenicity	Not classified as a mutagen.
Carcinogenicity	Adverse health effects, usually associated with long term exposure to high respirable crystalline silica quartz not anticipated due to product form. This product may only present a hazard if solid is cut or drilled with dust generation. Respirable crystalline silica quartz is classified as carcinogenic to humans (IARC Group 1).
Reproductive	Not classified as a reproductive toxin.
STOT – single exposure	Dust can be generated during cutting of the product. Dusts are mechanical irritants that may cause throat irritation
STOT – repeated exposure	Repeated inhalation of respirable crystalline silica can cause silicosis and other chronic lung disease.

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

The substance is inert and there is no evidence of significant toxicity.

12.2 Persistence and degradability

Being inorganic, the substance will not biodegrade.

12.3 Bioaccumulative potential

The substance is inert and will not be absorbed and accumulate in tissues.

12.4 Mobility in soil

A low mobility would be expected in a landfill situation.

12.5 Other adverse effects

The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Reuse where possible. Dispose of in accordance with local regulations.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

	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.

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

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).

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Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)
Bentonite is listed on the Australian Inventory of Industrial Chemicals in public SDS sources

16. OTHER INFORMATION

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.

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/m ³	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

Watheroo Minerals Calcium Bentonite**Report status**

This document is based on information concerning the product which has been provided to ALOSCA Technologies 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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Prepared by

ALOSCA Technologies Pty Ltd