



SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

- 1.1 Product:** UltraBen 45, UltraBen 75, UltraBen 150, Stockfeed Superfine, Stockfeed Fine, Stockfeed Granular, Sun Dried Superfine, Sun Dried Fine, Sun Dried Granular, WineBen, Fine Granular Bentonite, Enviro Litter
- 1.2 Other Names:** Arumpo Bentonite, Sodium Bentonite, UltraBen, BleachBen, Stockfeed Bentonite, Sun Dried Bentonite.
- 1.3 Recommended Use:** Animal feed additive, Pet Litter, Water Storage Sealing, Soil Improver, Poultry litter amendment, Civil Engineering, Electrical Engineering, Clarifying agent.
- 1.4 Supplier:** Arumpo Bentonite Pty Ltd
291 Arumpo Road, Buronga NSW 2739
(PO Box 5045, Mildura VIC 3502
Phone: (03) 5021 0744 or 1800 210744
After Hours: 0407 210744 or 0417 392717
Facsimile: (03) 5021 0755
Email: arumpo@arumpo.com.au
Web: www.arumpo.com.au
- 1.5 Poisons Information:** 13 11 26 (24hr emergency assistance hotline)

2. HAZARDS IDENTIFICATION

- 2.1 Hazard Classification:** Non-hazardous according to criteria of the Globally Harmonised System of Classification and Labelling of Chemicals, 7th Revised Edition (GHS) and of Work health and Safety Legislation. NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code).
- 2.2 Signal Word:** None
- 2.3 Label Elements & Precautionary Statements:** None
- 2.3 Other Hazards:** None

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportion
Montmorillonite (dominant)	1318 – 93 – 0	95-99% w/w
Quartz (minor)	14808 – 60 – 7	1-2% w/w
Other		<3% w/w



Note: While this product is not classified as Hazardous in its supplied state, care should be taken to adopt control measures where further processing of this product creates dust. If dust is created, it may contain respirable silica (from quartz). Respirable dust is subject to the National Exposure Standards for Atmospheric Contaminants in the Occupational Environment.

4. FIRST AID MEASURES

4.1 Description of Necessary First Aid Measures

Ingestion:	Not considered to be toxic by ingestion and no adverse effects are likely
Dermal Absorption:	Non-skin absorbing but may adhere to cuts, skin abrasions. Wash with plenty of water and non-abrasive soap to cleanse the area.
Eye Irritation:	Flush eye with clean, low pressure tap water for 15 minutes. Remove contact lenses to ensure thorough flushing. If irritation persists, seek medical advice.
Inhalation:	Move affected person to fresh air; and allow rest. In the event of inhalation of significant quantities of dust, seek medical advice. If discomfort continues after inhalation of small quantities of dust (for example, if inhalation occurred when dust in the inhaled air was barely visible) seek medical advice.

4.2 Medical Attention and Special Treatment

Medical Advice:	The substance is an inert natural clay containing only very low levels of respirable crystalline silica as supplied. Treat symptomatically.
Poisons Information Hotline:	13 11 26 (24hr emergency assistance)

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:	The product is completely non-combustible; water and/or foam sprays may be used in vicinity of product. Use extinguishing medium appropriate to surrounding fire.
5.2 Specific Hazards arising from the chemical:	None. The product is non-combustible.
5.3 Special Protective Precautions and Equipment for Fire Fighters:	The unpackaged product will become extremely slippery when wet. Care must be taken by emergency vehicles and personnel when moving across wet product.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal Precautions, protective equipment and emergency procedures:** Avoid generating dust. Use a P2 (also called N95) dust mask when cleaning up product in powder form.
- 6.2 Environmental Precautions:** Product is not harmful to the environment, although it will impart a high degree of turbidity to natural waters. For this reason, the product should be prevented from entering natural waterways..
- 6.3 Methods and Materials for Containment and Clean Up Procedures:** While using appropriate personal protective equipment as described in Section 8, sweep up dry product and dispose of in general waste/landfill.
The product may swell upon contact with water and has the potential to block drains.

7. HANDLING AND STORAGE

- 7.1 Precautions for Safe Handling:** Avoid generating airborne particles.
- 7.2 Conditions for Safe Storage:** Store in a cool, dry place away from other chemicals to avoid absorption and taint.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 National Exposure Standards:** National exposure standards should be applied for any use of the product that may generate significant airborne dust. The document Workplace Exposure Standards for Airborne Contaminants (Safe Work Australia, December 2019) and the appropriate exposure limit is shown below:

Name	CAS No.	TWA (mg/m ³)	Note
Quartz (respirable dust)	14808-60-7	0.05 mg/m ³	Carc. 1A
Nuisance dusts (not otherwise defined)	Not Applicable	10 mg/m ³	None

TWA = time-weighted average. An eight-hour time-weighted average exposure standard is the average airborne concentration of a particular substance permitted over an eight-hour working day and a 5-day working week.

The product as supplied meets the National exposure standard as stated above.

It is important to ensure that by minimising the generation of additional fine dust in any form of further processing, the above

limit for respirable crystalline silica is continually met.

According to the document Guidance on the Interpretation of Workplace Exposure Standards for Airborne Contaminants (Safe Work Australia, April 2013), the respirable fraction is composed of the very fine dust which is able to reach the lower bronchioles and alveolar regions of the lung. As the Equivalent Aerodynamic Diameter of particles reduces from 18 micrometers (μm), the respirability of the particles steadily increases. At an equivalent aerodynamic diameter of just 2 microns, the particles are 97% respirable.

The Safe Work note “Carc. 1A” indicates that the specified atmospheric contaminant (Quartz, respirable dust) is a Category 1A carcinogen. Respirable quartz is known to cause cancer by the inhalation route of exposure.

- 8.2 Biological Limit Values:** No biological limit allocated for product. .
- 8.3 Engineering Controls:** Ensure ventilation is adequate to maintain airborne dust concentrations below the occupational exposure limits shown above.
- 8.4 Personal Protective Equipment:** Respiratory protection: to adequately protect against respirable dust, a P2 mask (also called an N95 mask) should be worn. For the mask to function properly, it’s important to achieve a good fit. Take time to correctly identify which size and style of mask is suitable for you. Each time a P2/N95 face mask is used it should be fit checked before entering an unsafe environment. Fit checks ensure that the mask is sealed over the bridge of the nose and mouth, and that there are no gaps in the seal between the mask and the face. If high dust levels are likely to be encountered, self-contained breathing apparatus is recommended. In these circumstances, a wide-brimmed hat is recommended to prevent dust from falling onto the face. Eye protection: safety glasses should be worn to protect from eye irritation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Description/Properties

Appearance:	Buff/off white granules/powder.
Odour:	Odourless
Odour Threshold:	No data available
pH:	5 - 7
Melting point/Freezing point:	No data available
Initial boiling point and boiling range:	No data available

Flash Point:	Non-flammable.
Evaporation Rate:	Will not evaporate
Flammability (solid, gas):	Non-flammable.
Upper/lower flammability or explosive limits:	Non-flammable.
Vapour Pressure:	Not relevant
Vapour Density:	Not relevant
Relative Density:	1.12 tonne per cubic metre.
Solubility in water:	Forms colloidal suspension
Partition coefficient: n-octanol/water	No data available.
Ignition Temperature:	Non-flammable
Decomposition temperature:	Will not decompose.
Viscosity:	No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity:	There are no foreseeable situations that would cause this product to undergo a dangerous chemical reaction..
10.2 Chemical Stability:	This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
10.3 Conditions to Avoid:	No foreseeable conditions to avoid.
10.4 Incompatible Materials:	No data available
10.5 Hazardous Decomposition Products:	There are no foreseeable situations that would cause this product to generate hazardous decomposition products
10.6 Hazardous Reactions:	None

11. TOXICOLOGICAL INFORMATION

11.1 Likely Route of Exposure:	Inhalation, skin contact, eye contact, ingestion.
11.2 Health Effects from Likely Route of Exposure	
Acute - Ingestion:	Acute toxicity estimate (ATE), oral, > 2000 mg/kg body weight (bw)
Acute - Skin:	ATE, dermal, 2000mg/kg bw

Acute - Inhalation:	May cause respiratory discomfort; ATE, inhalation, > 5.0mg/L
Skin Contact:	Not a skin irritant
Eye contact:	Not an eye irritant, but excessive dust in eyes may cause discomfort.
Aspiration hazard:	This product does not meet the criteria for classification as an aspiration hazard.
Specific target organ toxicity (single exposure):	Not known to occur.

11.3 Chronic Health Effects

Carcinogenicity:	Crystalline silica (for example quartz), when present as respirable dust, is a Category 1A carcinogen by the inhalation route. Crystalline quartz is a minor component of the product but is mostly not present in the respirable form. Measures should be taken to maintain airborne respirable crystalline silica below the exposure limits described in Section 8.
Germ cell mutagenicity:	This product does not meet the classification criteria for germ cell mutagenicity.
Reproductive toxicity:	This product does not meet the classification criteria for reproductive toxicity.
Skin sensitisation:	This product does not meet the classification as a skin sensitizer.
Respiratory sensitisation:	This product does not meet the classification as a respiratory sensitizer
Specific target organ toxicity (repeat exposure):	Repeated or prolonged inhalation of crystalline silica (for example quartz), when present as respirable dust, can cause damage to lungs and lead to silicosis. Crystalline quartz is a minor component of the product but is mostly not present in the respirable form. Measures should be taken to maintain airborne respirable crystalline silica below the exposure limits described in Section 8.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	This product does not meet the classification criteria for acute aquatic toxicity and nor does it meet the classification
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criteria for chronic aquatic toxicity

- 12.2 Persistence and Degradability:** The product is a naturally occurring clay which is known to be a common component of healthy soils. It is known to be persistent in the natural environment, eventually being altered by the natural processes of weathering..
- 12.3 Bio accumulative Potential:** This product is known to have a low bio accumulative potential.
- 12.4 Mobility in soil:** The product is a naturally occurring clay which is known to be a common component of healthy soils.
- 12.5 Other adverse effects:** If released into natural waterways this product may have the effect of increasing turbidity and remaining suspended in the water for long periods, with possible adverse effects on aquatic life.

13. DISPOSAL CONSIDERATIONS

- 13.1 Safe Handling & Disposal Method:** Unused product may be disposed of into local landfill. However, as it is a natural component of healthy soils, alternative uses as a soil enhancing agent are encouraged.
- 13.2 Disposal of contaminated packaging:** Used packaging may be recycled where facilities exist.
- 13.3 Special Precautions for Landfill or Incineration:** No special precautions for disposal of unused product. The product is non-combustible.

14. TRANSPORT INFORMATION

- 14.1 Transport by Road and Rail:** Not classified as dangerous goods under the Australian Code for the Transport of Dangerous Goods by Road & Rail, Edition 7.7
- 14.2 Transport by Sea:** Not classified as dangerous goods under the International Maritime Dangerous Goods Code (IMDG).
- 14.3 Air Transport:** Not classified as dangerous goods under the IATA Dangerous Goods Regulations (the IATA DGR)

15. REGULATORY INFORMATION

Not a scheduled poison under the Standard for the Uniform Scheduling of Medicines and Poisons. All components of this product are listed on, or exempt from, the Australian Inventory of Industrial Chemicals (the AIIC).

16. OTHER INFORMATION

- 16.1 Issue Date** 25th December, 2021
- 16.2 Literature References** Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 7th Revised Edition
NSW Work Health and Safety Regulation 2017
Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals (August 2020), as gazetted by NSW government.
Safe Work Australia, Hazardous Substances Information System (HSIS), viewed October 2021
<http://hcis.safeworkaustralia.gov.au/HazardousChemical>
Work Health and Safety Regulation 2017

END OF Safety Data Sheet

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