



MATERIAL SAFETY DATA SHEET

BENTONITE PELLETS

1. PRODUCT IDENTIFICATION

TRADE NAME: BENTONITE PELLETS
Use: Natural Mineral Montmorillonite drilling fluid additive
Description: Natural Sodium Bentonite

Supplier Name: Fluidstar (Pty) Ltd
 Address: Unit 3/No. 1 General McArthur Place Redbank Qld 4301
 Telephone: + 61(0) 7 3288 4480, email: info@fluidstar.com.au
 Emergency Contact: +61 400 195 406

2. HAZARDS IDENTIFICATION

**NON-HAZARDOUS ACCORDING TO CRITERIA OF AUSTRALIAN NATIONAL OCCUPATIONAL HEALTH & SAFETY COMMISSION (NOHSC), AUSTRALIA.
 NOT CLASSIFIED AS DANGEROUS GOODS, ACCORDING TO THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL.**

RISK PHRASES:

Not applicable

SAFETY PHRASES:

S22 Do not breathe dust.

S38 If insufficient ventilation, wear suitable respiratory equipment.

CAUTION:

Avoid inhalation. Avoid contact with eyes. Do not take internally.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration
Smectite	12199-37-0	>74%
Quartz/Cristobalite	14808-60-7& 14464-46-1	<18%
Plagioclase	Mixture	<8%
Feldspar/Kaolinite		

4. FIRST AID INFORMATION

FIRST AID

EYES:

Flush the eyes immediately with large amounts of water, lifting the upper and lower lids occasionally. If irritation persists or for imbedded foreign body, get immediate medical attention.

SKIN:

No first aid should be needed since this product does not affect the skin. Wash exposed skin with soap and water before breaks and at the end of the shift.

INGESTION:

Do not induce vomiting. Wash mouth with water. If symptoms persist, get immediate medical attention.

INHALATION:

Remove source of contamination or move victim to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get prompt medical attention.

NOTE TO PHYSICIAN:

Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION:

If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

This product is not considered flammable, nor will it support combustion. However the packaging may burn under fire conditions. Use extinguishing media appropriate to the surrounding fire. Do not use water jets.

COMBUSTION PRODUCTS:

Smoke, fumes and dust may be generated in a large fire.

FLAMMABLE LIMITS:

Not Applicable LEL - Not Applicable UEL - Not Applicable

UNUSUAL FIRE AND EXPLOSION HAZARD:

None known

6. ACCIDENTAL RELEASE MEASURES

SPILL CONTROL AND RECOVERY:

Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water; product will become slippery when wet.

Waste Disposal Method – Follow federal, state and local regulations for solid waste.

DISPOSAL:

If this product becomes a waste, it does not meet the criteria of a hazardous waste.

7. HANDLING AND STORAGE

HANDLING:

Prevent the creation of dust concentration higher than the occupational exposure limit. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using the product.

STORAGE:

Store in a dry area. Keep container tightly sealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS:

No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC). However, the available exposure limits on ingredients are as follows:

Quartz- TWA 0.1 mg/m³

Cristobolite-TWA 0.1 mg/m³

In addition, NOHSC has set the following exposure standard for dust not otherwise specified:

Dust-TWA 10 mg/m³ (inspirable fraction).

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

RESPIRATORY PROTECTION:

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable particulate filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

Body Protection

Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist.

Engineering Controls

Good ventilation adequate to maintain the concentration below exposure standards is required.



HYGIENE MEASURES:

Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet facilities.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Tan or beige to light gray colored tablets, odourless
BOILING POINT:	Not Applicable
SPECIFIC GRAVITY:	(Water = 1.0) - 2.38
pH VALUE:	7-10 (20% aqueous slurry)
FLASH POINT:	Non-combustible solid
SOLUBILITY IN WATER:	Insoluble. Forms colloidal suspensions in water, with strong thixotropic properties.

10. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

None Known

INCOMPATIBILITY:

(Materials to Avoid): None Known

Hazardous Decomposition or By-products:

None Known

HAZARDOUS POLYMERIATION:

Will Not Occur

11. TOXICOLOGY INFORMATION

Ecotoxicity

Not available

12. ECOLOGICAL INFORMATION

MOBILITY:

Not available

PERSISTENCE /DEGRADABILITY:

Not available

BIOACCUMULATION:

Not available

ECOTOXICITY:

Not available

13. DISPOSAL REGULATIONS

SPILL CONTROL AND RECOVERY:

Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water; product will become slippery when wet. Waste Disposal Method – Follow federal, state and local regulations for solid waste.

DISPOSAL:

If this product becomes a waste, it does not meet the criteria of a hazardous waste.

14. TRANSPORT INFORMATION

THE PRODUCT IS NOT CLASSIFIED AS DANGEROUS GOODS, ACCORDING TO THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL.

UN NUMBER: None allocated

SHIPPING NAME: None allocated

DANGEROUS GOODS CLASS: None allocated

HAZCHEM CODE: None allocated

SUBSIDIARY RISK: None allocated

PACKAGING GROUP: None allocated

EPG NUMBER: None allocated

15. REGULATORY INFORMATION

POISONS SCHEDULE:

None allocated

AICS:

All chemicals listed on the Australian Inventory of Chemical Substances.

HAZARD CATEGORY:

Toxic

16. OTHER INFORMATION

Date of Preparation: Issue Date 20-Oct-05

Last Revision: Revised 14 Apr 2009

CONTACT POINTS

ORGANISATION	TELEPHONE
Poisons Information Centre –Australia Wide	131126
Fluidstar	+61 7 3288 8485
	0400 195 406
Fire Brigade	000
Police	000

Disclaimer:

Every endeavor has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. FLUIDSTAR Pty Ltd accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Federal, State and Local Government regulations.

END OF MSDS