



SAFETY DATA SHEET: SODIUM BENTONITE

1. IDENTIFICATION OF THE SUBSTANCE/ COMPANY

1.1. Product identifier

Product names: **Bentonite** (absorbent aluminium phyllosilicate)

1.2. Details of the supplier

Company: OMV (Pty) Ltd
Industrial minerals
108 Pebble lane,
Clayville ext.14,
Olifantsfontein
South Africa
Telephone: +27 11 316 4390
Website: www.omv.co.za

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Products are not classified as a hazardous substance.

2.2. Other Hazards

Dust from these products may cause irritation of the respiratory system, eyes and skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Bentonite is a UVCB substance sub-type 4. The purity of the product is 100% w/w.

Ingredient	CAS Number	Chemical Formula	Concentration
Smectite group minerals	1318-93-0	$(\text{Na}, \text{Ca})_{0.33}(\text{Al}, \text{Mg})_2\text{Si}_4\text{O}_{10}(\text{OH})_2 \cdot (\text{H}_2\text{O})_n$	>65 %
Calcium Carbonate	471-34-1	CaCO_3	4 %
Quartz (SiO ₂)	148-60-7	SiO ₂	6 %

The product contains other constituents (e.g. feldspar and kaolinite) in small amount and these minor constituents are not relevant for classification and labelling.



4. FIRST AID MEASURES

4.1. Description of first aid measures

INHALATION:	Avoid breathing dust Move to fresh air and keep comfortable.
SKIN CONTACT:	Wash hands thoroughly after handling
EYE CONTACT:	If in eyes, rinse cautiously with water If eye irritation persists, get medical advice
INGESTION:	If swallowed, rinse mouth with water
GENERAL:	Get medical attention if any symptoms persist

4.2 Most important symptoms and effects, both acute and delayed

The acute symptoms would pain the eyes because of dust entry. No delayed side effects are anticipated if first aid treatment is applied and is effective.

4.3 Indication of any immediate medical attention and special treatment needed

No need for immediate medical attention; follow the advises given in section 4.1

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: The product is not combustible. Use water or CO2 fire extinguisher to extinguish the surrounding fire.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

The material is not flammable and it does not support fire. No hazardous thermal decomposition products.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust
Do not get in eyes



Do not eat, drink or smoke when using products
Wear eye protection when using products
In case of inadequate ventilation wear respiratory protection

6.2. Environmental precautions

Prevent product from entering drains.
Product is very slippery in wet conditions

6.3. Methods and material for containment and cleaning up

Collect spillage in suitable container for disposal.
Dispose of container according to local regulations

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Wash hands thoroughly after handling products
Use only outdoors or in a well-ventilated area

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Maintain personal exposure below occupational exposure limit for inhalable and respirable dust as dictated in the national legislation

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Colour:	Brown
Odour:	Odourless
Appearance form:	Fine powder
Swell:	>24ml/2g
Moisture:	<12%
Bulk density:	0.85 – 1.0kg/m ³

10. STABILITY AND REACTIVITY



Hazardous reactions:	None under normal conditions of use
Stability:	Products are stable under recommended handling and storage conditions
Conditions to avoid:	Stable
Incompatible materials:	No restrictions
Hazardous decomposition products:	None known

11. TOXICOLOGICAL INFORMATION

Products are Non-Toxic
Products are not Mutagenic or Carcinogenic
Products are not toxic to the Reproductive cycle
May cause irritation to eyes and respiratory system, with no known long-term effects

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Follow local regulations for solid waste

14. TRANSPORT INFORMATION

Not classified as hazardous for transport
Spillages causes slippery conditions when wet

15. REGULATORY INFORMATION

Observe waste disposal and control of substances hazardous to health regulations

16. OTHER INFORMATION

Use and handle in accordance with supplier recommendations