

ENVIRONMENTAL AND MATERIAL SAFETY DATA SHEET

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BENTONITE

1. Product Identification

TRADE NAME: BENTONITE

GENERIC DESCRIPTION: A naturally occurring sodium montmorillonite used as a filter cake and viscosifier for drilling purposes.
Available in pellet or powder form.

2. Composition

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent</u>	<u>Hazardous</u>
Not Applicable			None

3. Hazards Identification

Emergency Overview

CAUTION! MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN, EYES

Health Rating: 0 - None

Flammability: 0 - None

Reactivity Rating: 0 - None

Contact Rating: 0 - None



Lab Protective Equip: SAFETY GLASSES; LAB COAT

NFPA 7 RATING: 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME

Potential Health Effects

Primary Route(s) of exposure:

Eyes, skin.

Symptoms of exposure:

A review of available data does not identify any symptoms from exposure not previously mentioned.

Aggravation of existing conditions:

A review of available data does not identify any worsening of existing conditions.

Skin Contact: Can cause mild, short-lasting irritation.
Eye Contact: Can cause moderate irritation.

4. First Aid Measures

Inhalation: No irritating fumes are produced at normal temperatures.
Ingestion: Do not induce vomiting. Give water. Call a physician.
Skin Contact: Remove any contaminated clothing. Wash skin with soap and water, if degreasing of skin has occurred, apply moisturizing cream.
Eye Contact: Immediately flush eyes with running water for 15 minutes, keeping eyelids open. Cold water may be used.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgement 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

Flash point (°C): Not applicable.
Explosion: Not considered to be an explosion hazard.
Fire Extinguishing Media: CO₂ and foam extinguishers
Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Spills: Contain spill. Wash away with large volumes of water, or contain spills with sand or wood and dispose of in designated areas.
Disposal: If this product becomes a waste, it does not meet the criteria of a hazardous waste.

7. Handling and Storage

Store in dry conditions at room temperature.
Keep containers securely sealed and prevent contamination.
Handle with rubber gloves and wear safety glasses.

8. Exposure Controls/Personal Protection

Ventilation System: Good ventilation is recommended.
Personal Respirators: None.
Skin Protection: Wear protective gloves and clean body-covering clothing.
Eye Protection: Use chemical safety glasses.

9. Physical and Chemical Properties

Appearance: Grey-brown fine powder or small pellets.
pH: Weak base when suspended in water.

Boiling Point:	Not applicable.
Melting Point:	Not applicable.
Specific gravity:	2.5
Freezing point:	Not applicable.
Flash point:	Not applicable.
Pour point:	Not applicable.
Vapour pressure (20°C):	Not Applicable.
Viscosity:	Not applicable.

NOTE: These physical properties are typical values for this product.

10. Stability and Reactivity

Conditions contributing to instability:	High temperature conditions
Thermal Decomposition Products:	Can produce sulphur dioxide fumes upon decomposition.
Hazardous Polymerization:	Will not occur.
Incompatibilities	None.

11. Toxicological Information

No information found

12. Ecological Information

Environmental Toxicity:	No information found
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13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

Not regulated.

16. Other Information

None.

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