



MATERIAL SAFETY DATA SHEET (MSDS)

Bentonite

SECTION 1: Product and Company Identification

Product Name	Bentonite
Chemical Name	Montmorillonite Clay
CAS Number	1302-78-9
Manufacturer/Supplier	ATDM

SECTION 2: Hazards Identification

GHS Classification: Not classified as hazardous. May cause respiratory irritation if inhaled in large amounts. Prolonged skin contact may cause dryness.

SECTION 3: Composition

Bentonite (Montmorillonite) 95-100%. May contain trace amounts of quartz and other minerals.

SECTION 4: First Aid Measures

- Inhalation: Move to fresh air. Seek medical attention if breathing difficulty occurs.
- Skin: Wash with soap and water. Apply moisturizer if irritation occurs.
- Eyes: Rinse with water for at least 15 minutes.
- Ingestion: Rinse mouth with water. Seek medical attention if symptoms occur.

SECTION 5: Fire-Fighting Measures

Non-flammable. Suitable media: Water, foam, dry chemical, CO2.

SECTION 9: Physical and Chemical Properties

Appearance	Fine powder, gray/beige/tan
Odor	Odorless
pH (10% solution)	8-10
Melting Point	> 1000 deg C
Solubility in Water	Insoluble, but swells in water

SECTION 11: Toxicological Information

Not classified as toxic. Long-term inhalation of quartz-containing dust may cause silicosis. Bentonite itself not classified as carcinogen; respirable crystalline silica (if present) IARC Group 1.

SECTION 14: Transport Information

UN Number: Not regulated. Not classified for transport.



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SECTION 16: Other Information

NFPA Rating: Health-1, Flammability-0, Reactivity-0. Date of Issue: 2025-02-06.