

Material Safety Data Sheet (MSDS) - Bentonite SP1

MATERIAL SAFETY DATA SHEET (MSDS)

PRODUCT NAME: Bentonite SP1

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1. PRODUCT IDENTIFICATION

Product Name: Bentonite SP1

Synonyms: Bentonite Clay, Sodium Bentonite

Chemical Family: Alumino-silicate clay

Use: Geotechnical and infrastructure applications

2. COMPOSITION / INGREDIENTS

Natural sodium bentonite with proprietary additives (for SP1).

3. HAZARDS IDENTIFICATION

- Not classified as hazardous under WHMIS/GHS.
- May cause mechanical irritation to eyes or lungs if inhaled as dust.

4. FIRST AID MEASURES

- Inhalation: Move to fresh air. Seek medical advice if symptoms persist.
- Skin Contact: Wash with water and soap.

- Eye Contact: Rinse cautiously with water. Remove contact lenses if present.
- Ingestion: Non-toxic but not intended for ingestion.

5. FIRE FIGHTING MEASURES

- Non-flammable.
- Use extinguishing media suitable for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

- Avoid generating dust.
- Sweep or vacuum and place in appropriate container for disposal.

7. HANDLING AND STORAGE

- Store in a dry, covered area.
- Avoid breathing dust.

8. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Fine, off-white powder
- Specific Gravity: 950-980 kg/m³
- Moisture Content: ≤ 12%
- Swelling Index: ≥ 32 mL/2g
- Water Absorption: ≥ 650%
- pH (1% solution): 8.0-9.0
- Gel Strength (10 min): ≥ 18 lb/100 ft²
- Packaging: 25 kg bags or 1-ton super sacks

9. STABILITY AND REACTIVITY

- Stable under normal conditions.
- Avoid contact with strong acids.

10. TOXICOLOGICAL INFORMATION

- Not toxic.
- Long-term exposure to dust may affect respiratory system.

11. ECOLOGICAL INFORMATION

- Not harmful to the environment.

12. DISPOSAL CONSIDERATIONS

- Dispose in accordance with local, provincial, and federal regulations.

13. TRANSPORT INFORMATION

- Not regulated as a hazardous material.

14. REGULATORY INFORMATION

- Complies with Canadian WHMIS and Global GHS guidelines.

Prepared by: Capital United Canada Inc.