



## Western Clay Corp.

600-12220 Stony Plain Rd, NW Edmonton, Alberta, Canada, T5N 3Y4  
(438) 523-6213

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### SAFETY DATA SHEET (SDS)

Prepared in accordance with WHMIS 2015 (Canada) and OSHA Hazard Communication Standard (29 CFR 1910.1200, GHS-aligned)

Preparation Date: Feb 4, 2025

#### SECTION 1: IDENTIFICATION

- **Product Name:** Natural Sodium Bentonite -Rosalind
- **CAS Number:** 1302-78-9
- **Intended Use:** Industrial Use – Environmental Barrier and Sealing Applications, Absorbents, Drilling, Agriculture, and Cat Litter.
- **Supplier Name:** Western Clay Corp.
- **Manufacturing Address:** 311 South Road, Rosalind, AB T0B3Y0
- **Emergency Contact:** +1 (438) 523-6213; +1 (438) 524-7411

#### SECTION 2: HAZARD IDENTIFICATION

- **GHS Classification:**
  - Specific Target Organ Toxicity – Repeated Exposure (STOT-RE), Category 2 (Respiratory)
  - Eye Irritation, Category 2B
- **Signal Word:** WARNING
- **Hazard Statements:**
  - **H373:** May cause lung damage through prolonged exposure to respirable crystalline silica dust.
  - **H320:** Causes eye irritation.
- **Precautionary Statements:**
  - **P261:** Avoid breathing dust.
  - **P264:** Wash hands and skin thoroughly after handling.
  - **P280:** Wear protective gloves, safety glasses, and respiratory protection if dust exposure is excessive.
  - **P285:** In case of inadequate ventilation, use respiratory protection.
  - **P305+P351+P338:** If in eyes, rinse cautiously with water for several minutes and remove contact lenses if present.

#### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration
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<b>Bentonite Clay (Montmorillonite -based Clay minerals)</b>	1302-78-9	75-90%
<b>Crystalline Silica (Respirable)</b>	14808-60-7	2-6%
<b>Other Naturally Occurring Aluminosilicates</b>	12174-11- 7/1332-58-7	5-15%

### SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
- **Eye Contact:** Flush eyes with water for at least 15 minutes. Remove contact lenses if applicable.
- **Skin Contact:** Wash with soap and water if irritation occurs.
- **Ingestion:** Not considered hazardous if ingested in small amounts. Seek medical advice if symptoms develop.

### SECTION 5: FIRE-FIGHTING MEASURES

- **Flammability:** Non-flammable (inorganic mineral).
- **Flash Point:** Not applicable.
- **Autoignition Temperature:** Not applicable.
- **Flammable Limits (LEL / UEL):** Not applicable.
- **Extinguishing Media:**  
Material is non-combustible; use extinguishing media appropriate for surrounding fire.
- **Special Fire-Fighting Procedures:**  
No special firefighting procedures required for bentonite.  
Firefighters should wear self-contained breathing apparatus in areas with heavy dust accumulation.
- **Unusual Fire and Explosion Hazards:**  
None known.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Spill Response:**
  - Use vacuum systems or wet methods to suppress dust generation.
  - Avoid sweeping or using compressed air, as these may increase airborne dust.

### SECTION 7: HANDLING AND STORAGE

- **Precautions for Safe Handling:**
  - Avoid generating or breathing airborne dust.
  - Use local exhaust ventilation where dust is generated.



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- Use NIOSH/MSHA-approved respirators if exposure limits for crystalline silica may be exceeded.
- Avoid adding water to dry material, as the product becomes slippery when wet.
- **Steps to Take in Case of Spillage or Release:**
  - Use vacuum systems or wet methods to suppress dust generation.
  - Avoid sweeping or using compressed air, as these may increase airborne dust.
- **Waste Disposal Considerations:**
  - Dispose of according to federal, state, and local regulations for solid waste.
  - Avoid disposal methods that generate additional dust.
- **Storage Conditions:**
  - Store in a dry, well-ventilated area to prevent excessive dust buildup.
  - Keep containers closed when not in use.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Occupational Exposure Limits:**

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Crystalline Quartz (Respirable Dust)	0.05 mg/m <sup>3</sup> TWA	0.05 mg/m <sup>3</sup> TWA	50 µg/m <sup>3</sup> TWA
Total Respirable Dust (Nuisance Dust)	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

- **Personal Protective Equipment (PPE):**
  - **Respiratory Protection:** Use **NIOSH/MSHA-approved respirators** where dust concentrations exceed exposure limits.
  - **Eye Protection:** **Safety glasses or goggles recommended** in areas with airborne dust.
  - **Gloves:** **Not required under normal use**, but may be used to reduce skin exposure.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Pale grey to brown powder or granules.

**Odor:** Odorless.

**Odor Threshold:** Not applicable.

**pH:** 8.0 - 10.5 (when dispersed in water).

**Boiling Point:** Not applicable.

**Melting Point:** Not applicable.

**Flash Point:** Not applicable.

**Evaporation Rate:** Not applicable.



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**Flammability:** Non-flammable.

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not applicable.

**Relative Density (Specific Gravity, H<sub>2</sub>O = 1):** 2.5

**Bulk Loose Density:** Depends on moisture level (7%-14%), typically ranges from 800-1200kg/M<sup>3</sup>

**Solubility in Water:** Negligible.

**Partition Coefficient (n-octanol/water):** Not applicable.

**Autoignition Temperature:** Not applicable.

**Decomposition Temperature:** Not applicable.

**Viscosity:** Not applicable.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions.

**Chemical Stability:** Stable under normal temperatures and pressures.

**Hazardous Reactions:** Will not occur under normal handling conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** None known.

**Hazardous Polymerization:** Will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Primary Routes of Exposure:

- Inhalation (main concern).
- Skin contact (low risk).
- Ingestion (not expected to be hazardous).

#### Health Effects:

- **Inhalation:** Prolonged exposure to respirable crystalline silica may cause lung disease (silicosis).
- **Eye Contact:** May cause mechanical irritation.
- **Skin Contact:** Not expected to cause irritation under normal conditions.
- **Ingestion:** Not expected to cause harm, but large quantities may cause discomfort.

#### Chronic Effects & Carcinogenicity:

- **IARC Classification: Group 2A – Possible Carcinogen (Crystalline Silica)**
- **OSHA Classification:** Regulated as a **hazardous substance when airborne** in respirable sizes.

#### Symptoms of Overexposure:

- Shortness of breath, coughing, and reduced pulmonary function with prolonged inhalation of fine dust.



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### **Medical Conditions Aggravated by Exposure:**

- Individuals with asthma or chronic respiratory conditions may be more susceptible to the effects of dust inhalation.

### **Emergency and First Aid Procedures:**

- **Eyes:** Flush with water for 15 minutes. If irritation persists, seek medical attention.
- **Inhalation:** Remove to fresh air. Provide oxygen or artificial respiration if needed. Seek medical help if breathing is difficult.
- **Skin:** Wash with soap and water.
- **Ingestion:** Not considered hazardous, but if large amounts are swallowed, seek medical advice.

### **SECTION 12: ECOLOGICAL INFORMATION**

- **Environmental Impact:** Not hazardous to the environment.
- **No aquatic toxicity reported.**

### **SECTION 13: DISPOSAL CONSIDERATIONS**

- **Waste Disposal:** Dispose of in accordance with federal, state, and local regulations.

### **SECTION 14: TRANSPORT INFORMATION**

- **DOT (US):** Not classified as hazardous.
- **IATA (Air Transport):** Not classified as hazardous.
- **IMDG (Maritime Transport):** Not classified as hazardous.

### **SECTION 15: REGULATORY INFORMATION**

- **Regulatory Compliance:**
  - This SDS complies with **WHMIS 2015 (Canada) and OSHA GHS (USA)**.
  - Sodium Bentonite is listed on the **TSCA (USA) and DSL/NDSL (Canada) inventories**.

### **SECTION 16: OTHER INFORMATION**

- **SDS Preparation Date:** February 4, 2025
- **SDS Version:** 1.0 (First Release)
- **Reviewed for WHMIS and OSHA requirements.**