



Black Hills Bentonite Co.

PRODUCT NAME  
WESTERN BENTONITE 200M and 325M

(BLACK HILLS BOND)

File ↑

### MATERIAL SAFETY AND TRANSPORTATION DATA SHEET

**SECTION 1** PRODUCT IDENTIFICATION

MANUFACTURERS NAME: Black Hills Bentonite Co., a Limited Liability Company  
TELEPHONE NO.: (307) 265-3740

ADDRESS: P.O. Box 9, Mills, WY 82644

CHEMICAL NAME AND SYNONYMS: Hydrous Silicate of Alumina / Wyoming Sodium Bentonite CAS No. 1302-78-9

**SECTION 2** HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	%	HAZARD DATA
Free Crystalline Silica	2-6	Chronic exposure over the TLV may result in silicosis or other respiratory ailments.
CAS. No. 14808-60-7		

**SECTION 3** PHYSICAL DATA

	SPECIFIC GRAVITY (H <sub>2</sub> O = 1) 2.6
VAPOR PRESSURE (mm Hg) Not Applicable	VAPOR DENSITY (AIR = 1) Not Applicable
EVAPORATION RATE Not Applicable	SOLUBILITY IN WATER Negligible
APPEARANCE AND ODOR Yellow, Blue, Brown granules or powder. Earthy odor.	DENSITY @ 20° C: UNCOMPACTED: 47.5 lbs/cubic foot

HAZARDOUS MATERIALS IDENTIFICATION

1 Health Hazard      0 Flammability  
0 Reactivity

DEGREE OF HAZARD

4 = EXTREME  
3 = High  
2 = Moderate  
1 = Slight  
0 = Insignificant

**SECTION 4****FIRE AND EXPLOSION DATA****FLASH POINT**

Not Applicable

**FLAMMABLE LIMITS**

Non Flammable

**SECTION 5****HEALTH HAZARD DATA****CARCINOGENICITY - SEE ROUTES OF EXPOSURE AND EFFECTS (BELOW)****ACUTE ORAL LD<sub>50</sub>**

ND

**ACUTE DERMAL LD<sub>50</sub>**

2.0

ND

**AQUATIC TOXICITY (LC<sub>50</sub>)**

10,000 mg/l

**ROUTES OF EXPOSURE AND EFFECTS**

This product contains free crystalline silica which according to the IARC has exhibited limited evidence of carcinogenicity in humans. Prolonged inhalation of the powder may result in Silicosis, a noncancerous lung disease.

TLV for Respirable Dust

$$\frac{10 \text{ mg/m}^3}{\% \text{ Respirable Quartz} + 2}$$

TLV for "Total Dust"

$$30 \text{ mg/m}^3$$

If cristobalite or tridymite is detected, use one-half the value calculated from formula for quartz

**SKIN**

Potential irritant

**EYE**

Potential irritant

**INHALATION**

Irritation to lungs, nose, and throat.

**EMERGENCY FIRST AID PROCEDURES****EYES:** Flush with water.**SKIN:** Wash with soap and water

If inhaled and effects occur, move to fresh air. If breathing is irregular, administer oxygen

**SECTION 6****REACTIVITY DATA****CONDITIONS CONTRIBUTING TO INSTABILITY**

Stable

**INCOMPATIBILITY**

None

**HAZARDOUS DECOMPOSITION PRODUCTS**

None

**HAZARDOUS POLYMERIZATION**

Will not occur.

**SECTION 7****SPILL OR LEAK PROCEDURES****STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED**

If uncontaminated, sweep up or collect, and reuse product. Product becomes slippery when wet.

**WASTE DISPOSAL METHOD**

Can be disposed of in approved landfill.

**NEUTRALIZING CHEMICALS**

Not Applicable

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**SECTION 8****SPECIAL PROTECTION INFORMATION**

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**RESPIRATORY PROTECTION**

Use NIOSH approved mechanical filter respirator for nontoxic dusts if dust concentration exceeds 10mg/m<sup>3</sup>.

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**VENTILATION**

Sufficient to keep dust levels below the TLV for crystalline silica

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**PROTECTIVE GLOVES**

General duty work gloves.

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**EYE PROTECTION**

If high dust conditions exist, tight fitting goggles are recommended.

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**OTHER PROTECTIVE EQUIPMENT**

Eyewash

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**SECTION 9****SPECIAL PRECAUTIONS**

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Store out of the weather. Product becomes slippery when wet. Avoid contact water in walk areas.

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**OTHER PRECAUTIONS****PROPER SHIPPING NAME**

Not Regulated

**PLACARDS**

None

**HAZARD CLASS**

Not Hazardous

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**REPORTABLE QUANTITY**

None

**HAZARDOUS SUBSTANCE**

None

**ID NUMBER**

None

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**LABEL**

None Required

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PREPARED BY: BLACK HILLS BENTONITE CO

DATE: SEPTEMBER, 1993

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