MATERIAL SAFETY AND TRANSPORTATION DATA SHEET

SECTION 1

MANUFACTURERS NAME
Black Hills Bentonite Co., a Limited Liability Company

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
Free Crystalline Silica
CAS. No. 14808-60-7

% 2-6
HAZARD DATA
Chronic exposure over the TLV may result in silicosis or other respiratory ailments.

SECTION 3

PHYSICAL DATA

SPECIFIC GRAVITY (H2O = 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>  ACUTE DERMAL LD<sub>50</sub>  AQUATIC TOXICITY (LC<sub>50</sub>)
ND  =  ND  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  10 mg/m<sup>3</sup>  % Respirable Quartz + 2

TLV for "Total Dust"  30 mg/m<sup>3</sup>

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

SKIN  EYE  INHALATION
Potential irritant  Potential irritant  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  INCOMPATIBILITY
Stable  None

HAZARDOUS DECOMPOSITION PRODUCTS  HAZARDOUS POLYMERIZATION
None  Will not occur.

SECTION 7
SPILL OR LEAK PROCEDURES
STEP 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
SECTION 8  SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
Use NIOSH approved mechanical filter respirator for nontoxic dusts if dust concentration exceeds 10mg/m³.

VENTILATION
Sufficient to keep dust levels below the TLV for crystalline silica.

PROTECTIVE GLOVES
General duty work gloves.

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

OTHER PROTECTIVE EQUIPMENT
Eyewash.

SECTION 9  SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Store out of the weather. Product becomes slippery when wet. Avoid contact water in walk areas.

OTHER PRECAUTIONS

PROPER SHIPPING NAME  PLACARDS  HAZARD CLASS
Not Regulated  None  Not Hazardous

REPORTABLE QUANTITY  HAZARDOUS SUBSTANCE  ID NUMBER
None  None  None

LABEL
None Required

PREPARED BY: BLACK HILLS BENTONITE CO  DATE: SEPTEMBER, 1993