



### SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **Barite**  
OTHER MEANS OF IDENTIFICATION: **Barium sulfate**  
RECOMMENDED USE: **Oilwell drilling fluid additive**  
RESTRICTIONS ON USE: **None known**  
SUPPLIER IDENTIFIER: **Prairie Mud Service**  
**738 6th Street**  
**Estevan, SK S4A 1A4**  
**306-634-3411**  
EMERGENCY PHONE NUMBER: 306-634-3411

### SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Not WHMIS classified  
LABEL SYMBOLS: Not applicable  
SIGNAL WORD: Not applicable  
CLASSIFICATION INFORMATION: Not applicable  
OTHER HAZARDS: None known.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Barium sulfate	7727-43-7	70-100

### SECTION 4: FIRST AID MEASURES

SKIN CONTACT: If irritation occurs, or when shift ends, wash with soap and water until clean. If irritation persists, obtain medical attention.  
EYE CONTACT: Flush eyes with gently flowing warm water until particles are dislodged. If irritation persists, obtain medical attention.  
INGESTION: If fully conscious, give large quantity of water. Obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.  
INHALATION: Move to area free from dust. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If breathing difficulties or distress continues, obtain medical attention.  
MOST IMPORTANT SYMPTOMS / EFFECTS: No significant acute or chronic effects expected as a result of contact with this product.  
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT: Treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use media appropriate for packaging and surrounding materials.  
UNSUITABLE EXTINGUISHING MEDIA: Barite is not combustible. Use media suitable for packaging and surrounding materials.  
SPECIFIC FIRE HAZARDS: None.  
HAZARDOUS COMBUSTION PRODUCTS: Not available.  
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS: Self-contained breathing apparatus and chemical resistant clothing required for firefighting personnel.



## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Collect uncontaminated material for repackaging. Collect contaminated material in appropriate containers for disposal.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Sweep up or vacuum to collect spilled material. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Flush spill area with copious quantities of water.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid breathing dust. Practice reasonable caution and personal cleanliness. Launder contaminated clothing before reuse.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area away.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS:

5 mg/m<sup>3</sup> (inhalable particulate matter); the value is for particulate matter containing no asbestos and less than 1% crystalline silica

### ENGINEERING CONTROLS:

Use only with adequate ventilation. If user operations generate dust use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.

### RESPIRATORY PROTECTION:

### PERSONAL PROTECTIVE MEASURES

Use a properly fitted particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

### PROTECTIVE GLOVES:

Not required.

### EYE PROTECTION:

Safety glasses with side shields recommended.

### OTHER PROTECTIVE EQUIPMENT (SPECIFY):

Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE:

Brown to grey powder

### ODOUR:

Dust/dirt-like odour

### ODOUR THRESHOLD:

Not available

### pH:

7.0 – 9.5

### MELTING POINT / FREEZING POINT:

1580°C

### BOILING POINT / RANGE:

Not available

### FLASH POINT:

Not applicable

### EVAPORATION RATE:

Not applicable

### FLAMMABILITY:

Not applicable

### FLAMMABILITY / EXPLOSIVE LIMITS:

Not applicable

### VAPOUR PRESSURE:

Not applicable



## SAFETY DATA SHEET BARITE

VAPOUR DENSITY:	Not applicable
RELATIVE DENSITY:	4.2 – 4.4
SOLUBILITY:	Insoluble
PARTITION COEFFICIENT:	Not applicable
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not available

### SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not reactive.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	None known.
CONDITIONS TO AVOID:	None known.
INCOMPATIBLE MATERIALS:	None known.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.

### SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	No information available.
SKIN CONTACT:	No adverse effects expected.
EYE CONTACT:	May cause mechanical irritation.
INGESTION:	No adverse effects expected.
INHALATION:	May cause irritation of the upper respiratory tract.
CARCINOGENICITY:	Barium sulfate is not listed as a carcinogen.
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	Not available.

### SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No data available.
PERSISTENCE AND DEGRADABILITY:	No data available.
BIOACCUMULATIVE POTENTIAL:	Low potential for bioaccumulation.
MOBILITY IN SOIL:	Not available.
OTHER ADVERSE EFFECTS:	No known significant effects or critical hazards.

### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.



**SECTION 14: TRANSPORTATION INFORMATION**

TDG	Not regulated
DOT	Not regulated
IATA	Not regulated
IMDG HAZARDS:	Not regulated
BULK TRANSPORT:	Not regulated
SPECIAL PRECAUTIONS:	None

**SECTION 15: REGULATORY INFORMATION**

DSL:	Listed
WHMIS CLASS:	Not controlled
TSCA:	Listed

**SECTION 16: OTHER INFORMATION**

REVISION DATE:	April 15, 2019
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