

## Material Safety Data Sheet

# Barite Powder

<p><b>1. IDENTIFICATION OF THE PRODUCT</b></p> <p><b>Product name:</b> Barium Sulfate  <b>Trade name:</b> Barite  <b>formula:</b> BaSO<sub>4</sub>  <b>Other/Generic names:</b> Barite  <b>Application:</b> Drilling fluid additive.</p>									
<p><b>2. COMPOSITION/INFORMATION ON INGEDIANTS</b></p> <p>Barite is a naturally occurring mineral, which may, depending upon its occurrence, contain minor amounts of the following:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Ingredient</th> <th style="text-align: left;">CAS No</th> <th style="text-align: left;">Percent</th> </tr> </thead> <tbody> <tr> <td>Clay</td> <td>1332-58-7</td> <td>&lt;1%</td> </tr> <tr> <td>Heavy Metal</td> <td>14808-60-7</td> <td>&lt;1%</td> </tr> </tbody> </table>	Ingredient	CAS No	Percent	Clay	1332-58-7	<1%	Heavy Metal	14808-60-7	<1%
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<p><b>3. HAZARDS IDENTIFICATION</b></p> <p><b>Skin Contact:</b> Direct contact may cause dryness and itching.  <b>Eye Contact:</b> Direct contact may cause mechanical irritation.  <b>Ingestion:</b> Barite is considered to be relatively non-toxic due to non-absorption.  <b>Inhalation:</b> Excessive concentrations of a nuisance dust may cause nuisance condition such as coughing, sneezing, and nasal irritation. Repeated inhalation may cause delayed lung injury.</p>									
<p><b>4. FIRST AID MEASURES</b></p> <p><b>Contact with skin:</b> Cotton gloves may be used if skin becomes excessively dry. Apply skin moisturizer.  <b>Contact with eyes:</b> Wash thoroughly with running water. Get medical advice if irritation develops.  <b>Ingestion:</b> Treat symptomatically. If symptoms persist, seek medical advice.  <b>Inhalation:</b> Remove to fresh air. Get medical attention for any breathing difficulty.</p>									
<p><b>5. FIRE-FIGHTING MEASURES</b></p> <p><b>Extinguishing media:</b> All standard firefighting media.  <b>Flash Point Method:</b> Not Determined.  <b>Flammability Limits in Air - Lower (%):</b> Not Determined.</p>									
<p><b>6. ACCIDENTAL RELEASE MEASURES</b></p> <p><b>Measures for personal safety:</b> Use appropriate protective equipment. Avoid creating and breathing dust.  <b>Environmental measures:</b> Not known.  <b>Cleaning methods:</b> Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.</p>									
<p><b>7. HANDLING AND STORAGE</b></p> <p><b>Handling precautions:</b> Wash thoroughly after handling. Remove contaminated clothing and</p>									

wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.

**Storage conditions:** Store in a cool, dry location. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory protection:** If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.

**Skin Protection:** Gloves, apron or coveralls.

**Eye protection:** Wear safety glasses or goggles to protect against exposure.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Powder-white to tan in color.

**Odor:** Odorless.

**PH:** 7.0 – 9.5

**Melting point:** 2876 degrees Fahrenheit

**Boiling point:** N/A

**Flash point:** N.A.

**Solubility in water:** Insoluble in water.

#### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Not anticipated

**Substance to avoid:** Not Applicable

**Hazardous decomposition products:** Thermal decomposition may produce toxic oxides of sulfur and barium.

#### 11. TOXICOLOGICAL INFORMATION

**Skin contact:** Not known.

**Eye contact:** May cause mild eye irritation.

**Inhalation:** Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A). Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring.

#### 12. ECHOLOGICAL INFORMATION

**Environmental Fate:** No information found.

**Environmental Toxicity:** No information found.

#### 13. DISPOSAL CONSIDERATIONS

**Disposal Method:** Bury in a licensed landfill according to federal, state, and local regulations.

**Contaminated Packaging:** Follow all applicable national or local regulations.

#### 14. TRANSPORT INFORMATION

**Road (ADR):** Not restricted

**Rail (RID):** Not restricted  
**Air (ICAO/IATA):** Not restricted  
**Sea (IMO/IMDG):** Not restricted

#### **15. REGULATORY INFORMATION**

Main general legislation if applicable, according to the International and local regulations.

#### **16. OTHER INFORMATION**

**NFPA Ratings:** Health: 1; Flammability: 0; Reactivity: 0

CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT.  
NUISANCE DUST.

**Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

**Label First Aid:**

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.

If irritation develops, call a physician. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.