



# MATERIAL SAFETY DATA SHEET

## SECTION I: IDENTIFICATION OF PRODUCT

**PRODUCT NAME:** Bentonite ABI Premium Gel  
**PRODUCT USE:** Oil Well Fluid Additive  
**CHEMICAL FAMILY:** Sodium Montmorillonite

### WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

**WHMIS CLASSIFICATION:** D-2(A)  
**WORK PLACE HAZARD:** Potential Carcinogen; Contains Free Silica

### TRANSPORTATION OF DANGEROUS GOODS (TDG)

**SHIPPING NAME:** Not Regulated Under TDG  
**TDG CLASSIFICATION:** N/A  
**UN NUMBER (PIN):** N/A  
**PACKING GROUP:** N/A

## SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENT</u>	<u>CAS NUMBER</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Bentonite	>97%	1302-78-9	5 mg/m <sup>3</sup>	N/A
Quartz (Silica)	1%	14808-60-7	10 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>

## SECTION III: TOXICOLOGICAL PROPERTIES

**ROUTE OF ENTRY:**  SKIN  EYE CONTACT  INHALATION  INGESTION

**ACUTE (Short Term Exposure):** Will cause coughing if exposed to dust at levels higher than Threshold Limit Values (TLVs).

**CHRONIC (Long Term Exposure):** May lead to the development of silicosis or other respiratory problems if consistently exposed to free silica containing airborne bentonite.

## SECTION IV: FIRST AID MEASURES

**SKIN CONTACT:** Wash with soap and water.  
**EYE CONTACT:** Wash with running water for fifteen (15) minutes.  
**INGESTION:** Not toxic upon ingestion.



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**INHALATION:** No first aid measures suggested for chronic exposure. For acute exposure remove patient from dusty environment.

## SECTION V: PHYSICAL DATA

<b>APPEARANCE AND ODOUR:</b>	Pale grey to buff powder or granules, odourless
<b>SPECIFIC GRAVITY:</b>	2.45 - 2.55
<b>BOILING POINT (°C):</b>	N/A
<b>MELTING POINT (°C):</b>	1450
<b>SOLUBILITY IN WATER:</b>	Insoluble; forms colloidal suspension
<b>pH:</b>	8 – 10 (5% aqueous suspension)
<b>PERCENT VOLATILE BY VOLUME:</b>	N/A
<b>EVAPORATION RATE:</b>	N/A
<b>VAPOUR PRESSURE (mm Hg):</b>	N/A
<b>VAPOUR DENSITY (Air = 1):</b>	N/A
<b>BULK DENSITY:</b>	880 kg/m <sup>3</sup>

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT:</b>	N/A
<b>FLAMMABLE LIMITS:</b>	N/A
<b>EXTINGUISHING MEDIA:</b>	N/A
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	N/A
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	N/A

## SECTION VII: REACTIVITY DATA

<b>STABILITY:</b>	Stable [XX]	Unstable [ ]
<b>INCOMPATIBILITY (CONDITIONS TO AVOID):</b>	N/A	
<b>CONDITIONS OF REACTIVITY:</b>	N/A	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	N/A	
<b>HAZARDOUS POLYMERIZATION</b>	Will Not Occur [XX]	May Occur [ ]



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## VIII: PREVENTIVE MEASURES

### SPECIAL PROTECTION INFORMATION

**RESPIRATORY PROTECTION:** Use an NIOSH approved dust filter.

**VENTILATION:** Local exhaust ventilation is recommended for controlled products.

**PROTECTIVE GLOVES:** N/A Required.

**EYE PROTECTION:** Suggest the use of goggles.

**OTHER PROTECTIVE EQUIPMENT:** N/A Required.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not breathe the dust. Wear an approved respirator. Practice reasonable caution and personal cleanliness. Avoid eye contact.

### STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Vacuum or sweep-up if dry. Avoid flushing with water as material may become extremely slippery. Large spills shovel and sweep up for reclamation or disposal. It is suggested that recovered material be reclaimed for reuse.

### WASTE DISPOSAL METHOD

Dispose of material in a manner to prevent generating dust.

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## SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

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