



**BJ SERVICES COMPANY  
MATERIAL SAFETY DATA SHEET**

Region  
USA

**SECTION I - GENERAL INFORMATION**

PRODUCT NAME: **Bentonite**  
 ITEM NUMBER : 100120, 420145  
 CHEMICAL DESCRIPTION: Bentonite Clay CAS# 1302-78-9  
 PRODUCT USE: CMT Extender  
 SUPPLIER: BJ Services Company  
 ADDRESS: 11211 FM 2920  
 Tomball, TX 77375  
**EMERGENCY TELEPHONE NUMBER (800)424-9300 for CHEMTREC  
 (202)483-7616 Alaska and International**  
 PREPARED BY: BJ Services Environmental Group  
 (281)351-8131  
 DATE PREPARED: August 4, 2000 Supersedes: December 1992

**HMS HAZARD INDEX**  
 HEALTH: 2  
 FLAMMABILITY: 0  
 REACTIVITY: 0  
 PERSONAL PROTECTION: e

**SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Bentonite	1302-78-9	**	Irritant
Quartz Silica	14808-60-7		Probable carcinogen
Crystobalite	14464-46-1		Irritant
Tridymite	15468-32-3		Irritant
			**See note under Inhalation

**SECTION III - FIRE AND EXPLOSION HAZARD DATA**

FLASHPOINT (METHOD): Does not burn  
 UPPER EXPLOSION LIMIT(% BY VOL): N.A.  
 LOWER EXPLOSION LIMIT(% BY VOL): N.A.  
 AUTO-IGNITION TEMPERATURE: N.A.  
 EXTINGUISHING MEDIA: Use appropriate media for surrounding fire  
 SPECIAL FIRE FIGHTING PROCEDURES: None  
 EXPLOSION DATA: None  
 HAZARDOUS COMBUSTION PRODUCTS: None

**SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: None  
SKIN ABSORPTION: Not absorbed by skin.  
EYE CONTACT: Eye contact may cause irritation and redness.  
INHALATION: Inhalation of high levels of vapors or mists may cause lightheadedness, dizziness, headaches or unconsciousness. Low concentrations of crystalline silica in the form of quartz, cristobalite and tridymite may be present in airborne bentonite dust. The concentration level of total free silica in airborne bentonite dust is variable depending upon origin of bentonite ore, fineness of product, moisture content of product, local humidity and wind conditions, etc.  
INGESTION: None known

CHRONIC OVEREXPOSURE EFFECTS: May lead to development of silicosis or other respiratory problems if consistently exposed to free silica containing airborne bentonite dust where levels are higher than TLV's. Labored breathing on heavy exertion and persistent dry cough are symptoms.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Bentonite	N.A.	5 mg/m <sup>3</sup>
Quartz Silica	0.1 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Cristobalite	0.05 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Tridymite	0.05g/m <sup>3</sup>	10 mg/m <sup>3</sup>

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

Free silica is listed as a probable carcinogen by IARC Low concentrations of free silica may be present in air-borne dust of this product.

TERATOGENICITY, MUTAGENICITY:

No effects listed.

TOXICITY STUDIES:

LD(50) N.E.  
LC(50) N.E.

## **SECTION V - FIRST AID PROCEDURES**

FOR EYES: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, contact a physician.

FOR SKIN: Flush skin with water or wash with mild soap and water if available. If irritation

persists, contact a physician.  
FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.  
FOR INGESTION: No specific measures needed

## **SECTION VI - PHYSICAL DATA**

APPEARANCE AND ODOR: White to gray powder, dirt-dust-like odor.  
SPECIFIC GRAVITY: 2.35  
VAPOR PRESSURE: N.A.  
VAPOR DENSITY (air=1): N.A.  
EVAPORATION RATE: N.A.  
BOILING POINT: N.A.  
FREEZING POINT: N.A.  
SOLUBILITY IN H<sub>2</sub>O: Insoluble  
pH: N.A.

## **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY: Stable  
INCOMPATIBLE MATERIALS: None  
HAZARDOUS POLYMERIZATION: Does not polymerize  
HAZARDOUS DECOMPOSITION PRODUCTS: None

## **SECTION VIII - SPECIAL/PERSONAL PROTECTION**

VENTILATION: The use of mechanical ventilation is recommended whenever this product is used in a confined space. Where engineering controls are not feasible, assure use is in an area where there is natural air movement.  
RESPIRATORY PROTECTION: Dust mask if TLV exceeded  
PROTECTIVE GLOVES: Not required  
EYE PROTECTION: Glasses  
OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily accessible.

## **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES: Sweep up and place in suitable containers for reuse or disposal.  
WASTE DISPOSAL: If this product becomes a waste, it does not meet the requirements of a RCRA waste. Always dispose of according to all local/state/and federal regulations.  
HANDLING & SPECIAL EQUIPMENT: Avoid breathing dust  
STORAGE REQUIREMENTS: None

## **SECTION X - REGULATORY INFORMATION**

### **SHIPPING INFORMATION**

PROPER SHIPPING NAME:	Not DOT Regulated
HAZARD CLASS:	N.A.
UN/NA NUMBER:	N.A.
PACKING GROUP W/ "PG":	N.A.
SUBSIDIARY RISK:	N.A.
REPORTABLE QUANTITY (RQ):	N.A.
EMERGENCY RESPONSE GUIDE #:	N.A.

**ENVIRONMENTAL INFORMATION**

**SARA TITLE III**

SECTION 302/304	This product does not contain ingredients listed as an Extremely Hazardous Substance.
SECTION 311/312	Immediate, Delayed
SECTION 313	This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

**OTHER REGULATORY INFORMATION**

TSCA INVENTORY:	All of the components in this appear on the TSCA inventory.
CALIFORNIA PROP 65:	None of the chemicals on the current Proposition 65 list are known to be present in this product.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.