



# BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region  
USA

## 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: **ClayTreat 2C**  
Item Number: 488515, 488516, 499702  
Product Use: KCl substitute  
Supplier: BJ Services Company  
11211 FM 2920  
Tomball, Texas 77375  
(281)351-8131

**IN CASE OF EMERGENCY CALL: (800) 424-9300 for  
CHEMTREC  
(703) 527-3887 for  
International**

### HMIS HAZARD INDEX

HEALTH: 1  
FLAMMABILITY: 0  
REACTIVITY: 0  
PERSONAL PROTECTION: 9

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS#	Percent	Hazard
Choline Chloride	000067-48-1	70-75	
Water	007732-18-5	25-30	

## 3 HAZARDS IDENTIFICATION

**PRIMARY ROUTES OF EXPOSURE:** Eye contact. Ingestion. Inhalation. Skin contact.

### ACUTE OVEREXPOSURE EFFECTS:

**INHALATION:** May cause respiratory tract irritation.

**INGESTION:** Product has low oral toxicity.

**EYE CONTACT:** Contact with liquid may cause eye irritation.

**SKIN CONTACT:** May cause mild skin irritation. May cause an allergic skin response in some individuals.

### EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	LC50 (inhalation)	LD50 (oral)
Choline Chloride	NA	NA	NA	3400-11000 mg/kg rat
Water	NA	NA	NA	NA

## **4 FIRST AID MEASURES**

### **INHALATION:**

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

### **INGESTION:**

DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

### **EYES:**

Flush eyes with plenty of water and get medical attention if irritation persists.

### **SKIN:**

Flush skin with water. Get medical attention if irritation persists. Remove contaminated clothing and launder before reuse.

## **5 FIRE FIGHTING MEASURES**

### **FLASHPOINT (METHOD):**

None

### **LOWER EXPLOSION LIMIT (% v/v):**

Not applicable

### **UPPER EXPLOSION LIMIT (% v/v):**

Not applicable

### **SPECIAL HAZARDS:**

### **EXTINGUISHING MEDIA:**

Alcohol foam. Carbon dioxide. Dry chemical.

### **SPECIAL FIREFIGHTING PROCEDURES:**

Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

Use water spray to cool nearby containers and structures exposed to fire.

### **HAZARDOUS COMBUSTION PRODUCTS:**

Oxides of carbon and nitrogen.

## **6 ACCIDENTAL RELEASE MEASURES**

Wear proper protective equipment as specified in Section 8. Evacuate area - warn other workers of spill. Prevent from entering sewers or waterways. Dike to contain. Cover spill with absorbent material. Scoop absorbed material into a suitable container for disposal.

## **7 HANDLING AND STORAGE**

### **HANDLING:**

Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Wash hands before eating and smoking.

### **STORAGE REQUIREMENTS:**

Keep away from incompatible materials. Keep container tightly closed, in a cool, well ventilated place. Store away from sunlight.

## **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **SPECIFIC ENGINEERING CONTROLS:**

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.

### **PERSONAL PROTECTIVE EQUIPMENT:**

Neoprene gloves. Chemical resistant goggles. Coveralls.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

### **PHYSICAL STATE:**

Liquid

### **COLOR:**

Colorless/pale yellow

### **ODOR:**

Faint Amine

### **ODOR THRESHOLD:**

Not available

### **VAPOR PRESSURE:**

Not available

VAPOR DENSITY (air = 1): 3.55  
EVAPORATION RATE: Not available  
BOILING POINT: Not available  
FREEZING POINT: Not available  
pH: 6.5-8.0  
SOLUBILITY IN WATER: Complete

## **10 STABILITY AND REACTIVITY**

### **STABILITY:**

Stable.

### **INCOMPATIBILITY/CONDITIONS OF REACTIVITY:**

None known.

### **HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:**

Oxides of carbon and nitrogen.

### **HAZARDOUS POLYMERIZATION:**

Will not occur.

## **11 TOXICOLOGICAL PROPERTIES**

### **CHRONIC EFFECTS:**

None known.

### **SENSITIZATION:**

Not known.

### **CARCINOGENICITY:**

None of the components of this product have been listed as carcinogenic by IARC, NTP or OSHA. (IARC- International Agency for Research on Cancer) (NTP - National Toxicology Program) (OSHA - Occupational Safety & Health Administration (US))

### **MUTAGENICITY:**

Not mutagenic

### **REPRODUCTIVE TOXICITY:**

Not known.

## **12 ECOLOGICAL INFORMATION**

Additional information may be available upon request.

Fish, (*Limanda limanda*) 96-hr, LC50>1000 ppm

Fish (*Leuciscus idus*) 96-hr, LC>10,000 ppm

Crustacean, Water Flea (*Daphnia magna*) 48-hr EC50>500 ppm

Crustacean, Shrimp (*Crangon crangon*) 96-hr EC50>1000 ppm

Algae (*Scenedesmus subspicatus*) 96-hr EC50>500 ppm

Bacteria (*Pseudomonas putida*) 17-hr EC50=133 ppm

## **13 DISPOSAL CONSIDERATIONS**

### **WASTE DISPOSAL:**

Disposal should be made in accordance with national and local regulations.

## **14 TRANSPORT INFORMATION**

### **LAND TRANSPORT (DOT)**

Proper Shipping Name: NOT RESTRICTED

UN/ID No.: NA

Hazard Class - Primary:

Hazard Class - Secondary:

Packing Group:

Reportable Quantity (RQ):

Emergency Response Guide #:

**AIR TRANSPORT (ICAO/IATA)**

Proper Shipping Name: NOT RESTRICTED  
UN/ID No.: NA  
Hazard Class - Primary:  
Hazard Class - Secondary:  
Packing Group:

**MARINE TRANSPORT (IMDG/IMO)**

Proper Shipping Name: NOT RESTRICTED  
UN No.: NA  
Hazard Class - Primary:  
Hazard Class - Secondary:  
Packing Group:  
EmS:

**15 REGULATORY INFORMATION**

**SARA TITLE III:**

**SECTION 302/304** This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

**SECTION 311/312** None

**SECTION 313** This product does not contain ingredients (at a level of 1% or greater) on the List of Toxic Chemicals.

**TSCA INVENTORY:** The substances in this product are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).

**CALIFORNIA PROP 65:** None of the chemicals on the current Proposition 65 list are known to be present in this product.

**PRIORITY POLLUTANTS:** None

**16 OTHER INFORMATION**

**ISSUE DATE:** 02/04/2010

**PREPARED BY:** BJ Services HSE Department

**REFERENCES:**

CCINFO Web Information Service, Canadian Centre for Occupational Health and Safety, 2008.  
Supplier's Literature.

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.