



BJ SERVICES COMPANY
MATERIAL SAFETY DATA SHEET

Region
USA

SECTION I - GENERAL INFORMATION

PRODUCT NAME: **Clay Treat-3C**
ITEM NUMBER: 488137, 488163, 488195
CHEMICAL DESCRIPTION: An aqueous solution of a quaternary ammonium compound and polymers
PRODUCT USE: Clay Control – KCl sub
SUPPLIER: BJ Services Company
ADDRESS: 11211 FM 2920
Tomball, TX 77375
**EMERGENCY TELEPHONE NUMBER (800)424-9300 for CHEMTREC
(703)527-3887 for International**
PREPARED BY: BJ Services Environmental Group
(281)351-8131
DATE PREPARED: February 19, 2004
Supersedes: August 4, 2000

HMS HAZARD INDEX
HEALTH: 3
FLAMMABILITY: 0
REACTIVITY: 0
PERSONAL PROTECTION: g

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Tetramethyl ammonium chloride	75-57-0	40-60	Toxic

SECTION III - FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT (METHOD): Not flammable
UPPER EXPLOSION LIMIT(% BY VOL): N.A.
LOWER EXPLOSION LIMIT(% BY VOL): N.A.
AUTO-IGNITION TEMPERATURE: N.A.
EXTINGUISHING MEDIA: May use water spray, carbon dioxide, dry chemical or chemical foam to fight fire.
SPECIAL FIRE FIGHTING PROCEDURES: None
EXPLOSION DATA: If evaporated to dryness and exposed to fire, may support combustion.
HAZARDOUS COMBUSTION PRODUCTS: May emit nitrogen oxides, hydrochloric acid and carbon monoxide.

SECTION IV - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Skin and eye contact

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: May cause irritation.
SKIN ABSORPTION: Not absorbed by skin.
EYE CONTACT: May cause irritation.
INHALATION: Aqueous solution, not a likely route of entry.
INGESTION: Ingestion may cause dizziness, nausea, and shortness of breath (nicotine-like symptoms). Acts as a ganglionic blocking agent and vasodilator. May be fatal if swallowed.

CHRONIC OVEREXPOSURE EFFECTS: May cause skin irritation, especially to open cuts and scrapes.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Tetramethyl ammonium chloride	N.E.	N.E.

CARCINOGENICITY, REPRODUCTIVE EFFECTS:
Not listed as carcinogenic – IARC, NTP, or OSHA

TERATOGENICITY, MUTAGENICITY:
No effects listed.

TOXICITY STUDIES:
LD(50) 94 mg/kg (50% solution, oral-rat)
LC(50) N.E.

SECTION V - FIRST AID PROCEDURES

FOR EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

FOR SKIN: Flush skin with water or wash with mild soap and water if available. Remove contaminated clothing. If irritation persists, contact a physician.

FOR INHALATION: Remove to fresh air. If breathing is labored, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

FOR INGESTION: IMMEDIATELY call a physician. Only induce vomiting at the direction of a physician or poison control center person. NOTE TO PHYSICIAN: No specific antidote known (symptoms similar to Nicotine). The physician's judgment should be used to control symptoms and clinical condition.

SECTION VI - PHYSICAL DATA

APPEARANCE AND ODOR: Colorless to light yellow liquid with slight odor.
SPECIFIC GRAVITY: 1.02
VAPOR PRESSURE: N.E.
VAPOR DENSITY (air=1): N.E.
EVAPORATION RATE: N.E.

BOILING POINT: App. 102°C
FREEZING POINT: Not known
SOLUBILITY IN H2O: Miscible
pH: 5 – 10

SECTION VII - REACTIVITY DATA

CHEMICAL STABILITY: Stable
INCOMPATIBLE MATERIALS: Oxidizers
HAZARDOUS POLYMERIZATION: Does not polymerize
HAZARDOUS DECOMPOSITION PRODUCTS: In fire conditions: carbon monoxide, hydrochloric acid and nitrogen oxides.

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: Mist type respirator if exposed to mists.
PROTECTIVE GLOVES: Rubber or neoprene
EYE PROTECTION: Goggles
OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily accessible.

SECTION IX - HANDLING PRECAUTIONS

LEAK AND SPILL PROCEDURES: Dike or contain spill to prevent material from entering waterways. Pump large spills into salvage containers. Soak up residue or small spills with absorbent pads, clay, or dirt and place in salvage containers.
WASTE DISPOSAL: If this product becomes a waste it does not meet the requirements of a RCRA hazardous waste. Always dispose of according to local, state and federal regulations.
HANDLING & SPECIAL EQUIPMENT: Avoid contact with skin, eyes and clothing. Do not eat or drink while handling this product. Wash thoroughly after handling.
STORAGE REQUIREMENTS: May be stored at ambient temperatures and pressures.

SECTION X - REGULATORY INFORMATION

SHIPPING INFORMATION

PROPER SHIPPING NAME: Toxic, liquids, organic, n.o.s. (contains tetramethylammonium chloride)
HAZARD CLASS: 6.1
UN/NA NUMBER: UN2810
PACKING GROUP W/ "PG": PGIII
SUBSIDIARY RISK: N.A.
REPORTABLE QUANTITY (RQ): N.A.
EMERGENCY RESPONSE GUIDE #: 153

ENVIRONMENTAL INFORMATION

SARA TITLE III

SECTION 302/304	This product does not contain ingredients listed as an Extremely Hazardous Substance.
SECTION 311/312	Immediate
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 product 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.