



**BJ SERVICES COMPANY**  
**MATERIAL SAFETY DATA SHEET**

Region  
USA

**SECTION I - GENERAL INFORMATION**

PRODUCT NAME: **FlexSand LS**  
ITEM NUMBER: 499907, 499919  
CHEMICAL DESCRIPTION: Resin coated cellulose  
PRODUCT USE: Proppant flowback  
SUPPLIER: BJ Services Company  
ADDRESS: 11211 FM 2920  
Tomball, TX 77375  
**EMERGENCY TELEPHONE NUMBER (800)424-9300 for CHEMTREC  
(703)527-3887 Alaska and International**  
PREPARED BY: BJ Services Environmental Group  
(281)351-8131  
DATE PREPARED: May 17, 2004  
Supersedes: September 11, 2002

**HMS HAZARD INDEX**  
HEALTH: 1  
FLAMMABILITY: 1  
REACTIVITY: 0  
PERSONAL PROTECTION: b

**SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Cured resin	Proprietary	0 -10	Irritant

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

FLASHPOINT (METHOD): 380°F  
UPPER EXPLOSION LIMIT(% BY VOL): N.A.  
LOWER EXPLOSION LIMIT(% BY VOL): N.A.  
AUTO-IGNITION TEMPERATURE: N.A.  
EXTINGUISHING MEDIA: Water  
SPECIAL FIRE FIGHTING PROCEDURES: None  
EXPLOSION DATA: N.A.  
HAZARDOUS COMBUSTION PRODUCTS: N.A.

**SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Eye contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: Not expected to be harmful under normal conditions of use.  
 SKIN ABSORPTION: Not absorbed through intact skin.  
 EYE CONTACT: Solids or dusts may cause irritation or scratch the surface of the eye.  
 INHALATION: Potential respiratory tract irritation.  
 INGESTION: Not expected to be harmful under normal conditions of use.

CHRONIC OVEREXPOSURE EFFECTS: None known.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Cured resin	N.E.	N.E.

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

TERATOGENICITY, MUTAGENICITY:  
 No effects listed.

TOXICITY STUDIES:  
 LD(50) N.E.  
 LC(50) N.E.

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

FOR EYES: Flush with large amounts of water.  
 FOR SKIN: Wash area of contact thoroughly with water and mild soap if available.  
 FOR INHALATION: Remove to fresh air. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.  
 FOR INGESTION: Not an expected route of entry.

## **SECTION VI - PHYSICAL DATA**

APPEARANCE AND ODOR: Light brown granules, odorless  
 SPECIFIC GRAVITY: 1.2 – 1.35  
 VAPOR PRESSURE: N.A.  
 VAPOR DENSITY (air=1): N.A.  
 EVAPORATION RATE: N.A.  
 BOILING POINT: N.A.  
 FREEZING POINT: N.A.  
 SOLUBILITY IN H2O: N.A.  
 pH: 4 – 5 @ 25°C

## **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY: Stable  
 INCOMPATIBLE MATERIALS: N.E.  
 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: N.A.

PROTECTIVE GLOVES: Not required.

EYE PROTECTION: Goggles

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 appropriate disposal container. Spilled material can be a slipping hazard. Eliminate flames, sparks, excessive temperatures.

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 creating air-borne dust. Spilled material can be slippery and cause falls if walked on.

STORAGE REQUIREMENTS: Store in cool, dry place.

## **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 Not Regulated

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.

---