



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

Region  
USA

**SECTION I - GENERAL INFORMATION**

PRODUCT NAME: **S-150**  
ITEM NUMBER: 488222  
CHEMICAL DESCRIPTION: Blend of surface active agents in water  
PRODUCT USE: Surfactant  
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: November 9, 2000 Supersedes: March 4, 1999

**HMIS HAZARD INDEX**

HEALTH: 2  
FLAMMABILITY: 3  
REACTIVITY: 0  
PERSONAL PROTECTION: g

**SECTION II - HAZARDOUS COMPONENTS**

HAZARDOUS COMPONENTS	CAS #	PERCENT	HAZARD
Methanol	67-56-1	< 35	Flammable
Isopropyl alcohol	67-63-0	< 5	Flammable

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

FLASHPOINT (METHOD): 70°F (PMCC)  
UPPER EXPLOSION LIMIT(% BY VOL): N.E.  
LOWER EXPLOSION LIMIT(% BY VOL): N.E.  
AUTO-IGNITION TEMPERATURE: N.E.  
EXTINGUISHING MEDIA: CO<sub>2</sub>, dry chemical, water spray or fog, or foam. Use water to keep containers cool. Isolate "fuel" supply from fire. Contain fire fighting liquids for proper disposal.  
SPECIAL FIRE FIGHTING PROCEDURES: Do not enter confined fire space without proper personal protective equipment including NIOSH approved self-contained breathing apparatus with full facepiece operated in the positive pressure demand mode. Do not inject a solid stream of water or foam into hot, burning pools; this may cause splattering and increase fire intensity. Evacuate personnel to a safe area. Keep unnecessary people away.

EXPLOSION DATA:

This material is volatile and readily gives off vapors that may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Containers may explode from internal pressure if confined to fire. Keep containers cool. Keep unnecessary people away.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, carbon monoxide and carbon dioxide

**SECTION IV - HEALTH HAZARD DATA**

PRIMARY ROUTES OF ENTRY: Eye and skin contact, inhalation

ACUTE OVEREXPOSURE EFFECTS:

SKIN CONTACT: May produce skin irritation, defatting and dermatitis.  
 SKIN ABSORPTION: Exposure to this material can result in absorption through skin causing health hazards.  
 EYE CONTACT: May cause moderate to severe irritation, including burning sensation, tearing, redness, swelling and blurred vision.  
 INHALATION: Can cause nasal and respiratory irritation, coughing, shortness of breath, weakness, lightheadedness, dizziness, fatigue, headache, intoxication, collapse, unconsciousness and death.  
 INGESTION: May cause gastrointestinal irritation, acidosis, nausea, vomiting, diarrhea, ocular toxicity ranging from diminished visual capacity to complete blindness, central nervous system depression and death. Possible kidney and liver dysfunction if large amounts are ingested.

CHRONIC OVEREXPOSURE EFFECTS: Can cause dermatitis, liver abnormalities, kidney damage, eye damage, lung damage, and central nervous system damage.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL
Methanol	N.E.	200 mg/m3
Isopropyl alcohol	N.E.	400 mg/m3

CARCINOGENICITY, REPRODUCTIVE EFFECTS:

This product contains components which result from a reaction involving ethylene oxide (EtO). Therefore, this product may contain residual amounts of EtO (<0.01%). IARC has rated EtO as a "human carcinogen". NTP has rated EtO as an "anticipated carcinogen".

TERATOGENICITY, MUTAGENICITY:

No effects listed

TOXICITY STUDIES:

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

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

FOR EYES: Flush eyes immediately with large amounts of water for at least 15 minutes. Lift lower and upper lids occasionally. Get medical attention.

FOR SKIN: Wash with soap and water. Remove contaminated clothing and launder contaminated clothing before reuse. Get medical attention if redness or irritation develops.

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: Call a physician immediately. Give victim a glass of water. Do not induce vomiting unless instructed by a physician or poison control center. Never give anything by mouth to an unconscious person.

## **SECTION VI - PHYSICAL DATA**

APPEARANCE AND ODOR: Clear, yellow liquid; alcohol odor

SPECIFIC GRAVITY: 0.930

VAPOR PRESSURE: N.E.

VAPOR DENSITY (air=1): N.E.

EVAPORATION RATE: N.E.

BOILING POINT: 185°F @ 760 mm Hg

FREEZING POINT: N.E.

SOLUBILITY IN H<sub>2</sub>O: Soluble

pH: 6-10

## **SECTION VII - REACTIVITY DATA**

CHEMICAL STABILITY: Stable

INCOMPATIBLE MATERIALS: Avoid contact with strong oxidizing agents, strong alkalies, and strong mineral acids

HAZARDOUS POLYMERIZATION: Does not polymerize

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce smoke, carbon monoxide and carbon dioxide.

## **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: If workplace exposure limit of product or any component is exceeded, an NIOSH/MSHA approved air supplied respirator is advised in the absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure organic vapor type) under specified conditions. Engineering or administrative controls should be implemented to reduce exposure.

PROTECTIVE GLOVES: Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride (PVC)

EYE PROTECTION: Chemical splash goggles or face shield in compliance with OSHA regulations is advised; however OSHA regulations also permits safety glasses under certain conditions.

OTHER PROTECTIVE EQUIPMENT: Eyewash bottles or other rinsing equipment should be easily accessible.

## **SECTION IX - HANDLING PRECAUTIONS**

LEAK AND SPILL PROCEDURES: Eliminate sources of ignition. Persons not wearing suitable personal protective equipment should be excluded from area of spill until clean-up has been completed. Shut off source of spill if possible to do so without hazard. Prevent material from entering sewers or watercourses. Provide adequate ventilation. Contain spilled materials with absorbent or earth. Recover undamaged material for reuse. Place all collected material and spill absorbents into DOT approved containers.

WASTE DISPOSAL: If this product becomes a waste it meets the requirements of a RCRA hazardous waste with the waste code D001. Always dispose of according to all local/state/and federal regulations.

HANDLING & SPECIAL EQUIPMENT: Avoid contact with eyes, skin or clothing. Avoid breathing vapors or mist. Keep away from heat, sparks, and open flames and never use a cutting torch on or near container (even empty) or explosion may result. Vapors may travel to areas away from the work site and ignite. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Do not transfer to improperly marked container. Do not use pressure to empty container. Do not cut, heat, weld, or expose containers to flame or other sources of ignition (even when empty). Use with adequate ventilation. Wash thoroughly after handling. Containers should be grounded and bonded to receiving container when being emptied. Containers should not be washed out and used for other purposes.

STORAGE REQUIREMENTS: Store containers closed and away from heat, sparks, and open flames. Containers should be grounded and bonded to receiving container(s) when being emptied. Containers should not be washed out and used for other purposes.

## **SECTION X - REGULATORY INFORMATION**

### **SHIPPING INFORMATION**

PROPER SHIPPING NAME: Flammable liquids, n.o.s. (contains methanol and isopropanol)

HAZARD CLASS: 3

UN/NA NUMBER: UN1993

PACKING GROUP W/ "PG": PGII

SUBSIDIARY RISK: N.A.

REPORTABLE QUANTITY (RQ): 5000/2270 (methanol)

EMERGENCY RESPONSE GUIDE #: 128

## 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, Fire
SECTION 313	This product contains the following ingredients (at a level of 1% or greater) on the List of Toxic Chemicals: Methanol 67-56-1 < 35%

### OTHER REGULATORY INFORMATION

TSCA INVENTORY:	All of the components in this appear on the TSCA inventory.
CALIFORNIA PROP 65:	Chemicals on the current Proposition 65 list are known to be present in this product. Ethylene oxide < 0.01%

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.