



# BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region  
USA

## 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: **FRW-18**  
Item Number: 488420  
Product Use: Friction reducer  
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: g

## 2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS#	Percent	Hazard
Hydrotreated light distillate	064742-47-8	10-30	

## 3 HAZARDS IDENTIFICATION

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

### ACUTE OVEREXPOSURE EFFECTS:

**INHALATION:** May be harmful if inhaled.

**INGESTION:** May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central nervous system depression. May cause pulmonary edema.

**EYE CONTACT:** Vapors are irritating to eyes.

**SKIN CONTACT:** Can cause redness and inflammation. May cause irritation or dermatitis.

### EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	LC50 (inhalation)	LD50 (oral)
Hydrotreated light distillate	200 mg/m <sup>3</sup> , skin*	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. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person.

### **EYES:**

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

### **SKIN:**

Flush skin with water or soap and water, if available, for at least 15 minutes. Get medical attention if irritation persists. Remove contaminated clothing and shoes.

## **5 FIRE FIGHTING MEASURES**

FLASHPOINT (METHOD):	> 200° F
LOWER EXPLOSION LIMIT (% v/v):	Not available
UPPER EXPLOSION LIMIT (% v/v):	Not available
AUTO-IGNITION TEMPERATURE:	Not available

### **SPECIAL HAZARDS:**

Product is not flammable.

### **EXTINGUISHING MEDIA:**

Water fog, carbon dioxide, foam, dry chemical.

### **SPECIAL FIREFIGHTING PROCEDURES:**

Cool exposed containers with water spray after extinguishing fire. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

### **HAZARDOUS COMBUSTION PRODUCTS:**

See Hazardous Thermal Decomposition Products.

## **6 ACCIDENTAL RELEASE MEASURES**

Wear specified protective equipment. Small spills - Cover spill with absorbent material. Scoop absorbed material into a suitable container for disposal. Large spills - Dike to contain. Prevent from entering sewers or waterways. Recover product to suitable containers or vessel for reuse, if possible, or for disposal.

## **7 HANDLING AND STORAGE**

### **HANDLING:**

Avoid contact with skin and eyes. Use in a well ventilated area to prevent irritation by vapors. Wash hands before eating and smoking.

### **STORAGE REQUIREMENTS:**

Keep container tightly closed, in a cool, well ventilated place.

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

### **SPECIFIC ENGINEERING CONTROLS:**

Local exhaust. Mechanical ventilation.

### **PERSONAL PROTECTIVE EQUIPMENT:**

Chemical resistant gloves. Chemical resistant goggles. Coveralls.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:	Liquid
COLOR:	Milky-white
ODOR:	Slight Oil Odor
ODOR THRESHOLD:	Not available
SPECIFIC GRAVITY:	Not available
VAPOR PRESSURE:	Not available
VAPOR DENSITY (air = 1):	Not available

EVAPORATION RATE: Not available  
BOILING POINT: > 212° F  
FREEZING POINT: Not available  
pH: Not available  
VISCOSITY (F): Not available  
SOLUBILITY IN WATER: Soluble

## **10 STABILITY AND REACTIVITY**

### **STABILITY:**

Stable under normal conditions of use.

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

Strong oxidizers.

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

Oxides of carbon, nitrogen and sulphur.

### **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 known.

### **REPRODUCTIVE TOXICITY:**

Not known.

## **12 ECOLOGICAL INFORMATION**

No specific information available.

## **13 DISPOSAL CONSIDERATIONS**

### **WASTE DISPOSAL:**

Disposal should be made in accordance with national and local regulations. Consult local waste authorities for direction and/or approvals prior to disposal.

## **14 TRANSPORT INFORMATION**

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

Proper Shipping Name: NOT RESTRICTED

Hazard Class - Primary:

UN/ID No.: NA

Packing Group:

Subsidiary Risk:

Reportable Quantity (RQ):

Emergency Response Guide #:

### **AIR TRANSPORT (ICAO/IATA)**

Proper Shipping Name: NOT RESTRICTED

Hazard Class - Primary:  
UN/ID No.: NA  
Packing Group:

**MARINE TRANSPORT (IMDG/IMO)**

Proper Shipping Name: NOT RESTRICTED  
Hazard Class - Primary:  
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** Immediate

**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:** This product does not contain substances which require warning under California Proposition 65.

**PRIORITY POLLUTANTS:**

**16 OTHER INFORMATION**

**ISSUE DATE:** 04/22/2008

**PREPARED BY:** BJ Services Environmental Group

**REFERENCES:**

CCINFO Web Information Service, Canadian Centre for Occupational Health and Safety, 2008.  
Dangerous Goods Regulations, 49th ed., International Air Transport Association, 2008.  
Guide to Occupational Exposure Values - 2007, American Conference of Governmental Industrial Hygienists, 2007.  
SAX's Dangerous Properties of Industrial Materials  
Supplier's Literature.  
Suspect Chemicals Sourcebook

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