



**BJ SERVICES COMPANY
MATERIAL SAFETY DATA SHEET**

Region
USA

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: **GasFlo**
 Item Number: 423908, 488411
 Product Use: Surface tension 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: 2
 REACTIVITY: 0
 PERSONAL PROTECTION: g

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS#	Percent	Hazard
Surfactants	Proprietary	20-80	
2-Butoxyethanol	000111-76-2	3-20	Irritant
Methanol	000067-56-1	10-30	Flammable toxic

3 HAZARDS IDENTIFICATION

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

ACUTE OVEREXPOSURE EFFECTS:

INHALATION: Harmful if inhaled. May cause headache, dizziness, nausea and incoordination. May cause respiratory tract irritation.

INGESTION: Harmful if swallowed. May cause nausea, dizziness or loss of coordination. May affect the blood and blood system.

EYE CONTACT: May cause eye irritation. Prolonged contact may cause severe irritation.

SKIN CONTACT: May be absorbed through the skin and contribute to the symptoms listed under ingestion. May cause skin irritation.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	LC50 (inhalation)	LD50 (oral)

Surfactants	N/A	N/A	N/A	N/A
2-Butoxyethanol	20 ppm	50 ppm	450 ppm/4 rat	250 mg/kg rat
Methanol	200 ppm, skin	200 ppm TWA	64000 ppm/4 rat	5600 mg/kg rat

4 FIRST AID MEASURES

INHALATION:

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Only trained personnel should administer oxygen. Get medical attention.

INGESTION:

DO NOT induce vomiting. If victim is conscious give 1 to 2 glasses of water. Never give anything by mouth to an unconscious person. Obtain medical assistance immediately.

EYES:

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

SKIN:

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and laundry before reuse. Seek medical attention.

5 FIRE FIGHTING MEASURES

FLASHPOINT (METHOD):	104°F (CC)
LOWER EXPLOSION LIMIT (% v/v):	Not available
UPPER EXPLOSION LIMIT (% v/v):	Not available
AUTO-IGNITION TEMPERATURE:	Not available

SPECIAL HAZARDS:

Product will burn in fire situation.

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical, foam.

SPECIAL FIREFIGHTING PROCEDURES:

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. Remove sources of ignition. 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. Use only explosion proof transfer equipment.

7 HANDLING AND STORAGE

HANDLING:

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

SPECIFIC ENGINEERING CONTROLS:

Adequate ventilation should be provided to keep concentrations below acceptable exposure limits. Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT:

Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect

against inhalation exposure. (Cartridge respirator) Chemical resistant goggles. Chemical resistant gloves. Coveralls.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Clear, yellow
ODOR:	Not available
ODOR THRESHOLD:	Not available
SPECIFIC GRAVITY:	Not available
VAPOR PRESSURE:	< 0.4 mm Hg @ 68° F
VAPOR DENSITY (air = 1):	Not available
EVAPORATION RATE:	Not available
BOILING POINT:	Not available
FREEZING POINT:	Not available
pH:	8-11 @ 1% solution @ 68° F
VISCOSITY (F):	Not available
SOLUBILITY IN WATER:	Soluble

10 STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

INCOMPATIBILITY/CONDITIONS OF REACTIVITY:

Strong reducing agents. May react violently with strong oxidizers or acids.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen.

HAZARDOUS POLYMERIZATION:

Will not occur.

11 TOXICOLOGICAL PROPERTIES

CHRONIC EFFECTS:

Prolonged or repeated over exposure may cause central nervous system depression. May cause liver and kidney damage. Dermatitis.

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: FLAMMABLE LIQUID,N.O.S.
Technical Name(s): Methanol
UN/ID No.: UN 1993
Hazard Class - Primary: 3
Hazard Class - Secondary:
Packing Group: III
Reportable Quantity (RQ): 5000 lbs (Methanol)
Emergency Response Guide #: 128

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name: FLAMMABLE LIQUID,N.O.S.
Technical Name(s): Methanol
UN/ID No.: UN 1993
Hazard Class - Primary: 3
Hazard Class - Secondary:
Packing Group: III

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name: FLAMMABLE LIQUID,N.O.S.
Technical Name(s): Methanol
UN No.: UN 1993
Hazard Class - Primary: 3
Hazard Class - Secondary:
Packing Group: III
EmS: F-E, S-E

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, Fire

SECTION 313 This product contains the following substance(s) which appear on the List of Toxic Chemicals:, Methanol CAS # 67-56-1

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: 04/03/2008

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.

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.
