

**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Name: **ALPHA 1427**
Item Number: 302AL1427B
Product Use: Biocide
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: 3
FLAMMABILITY: 1
REACTIVITY: 0
PERSONAL PROTECTION: 1

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS#	Percent	Hazard
Glutaraldehyde	000111-30-8	10-30	
Quaternary ammonium chloride	007173-51-5	5-10	
Alkyl dimethyl benzyl ammonium chloride (C12-16)	068424-85-1	3-7	
Ethanol	000064-17-5	1-5	
Water	007732-18-5	30-60	

3 HAZARDS IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE: Eye contact. Skin contact.

ACUTE OVEREXPOSURE EFFECTS:

INHALATION: Inhalation of solution vapor or mist may cause severe irritation or burns to the respiratory tract.

INGESTION: Harmful if swallowed. May cause severe damage of gastrointestinal tract. May cause nausea, vomiting and diarrhea. May be fatal if swallowed.

EYE CONTACT: Contact with solution may cause severe burns and permanent eye damage. Vapors are irritating to eyes. May cause irritation and redness.

SKIN CONTACT: May cause mild skin irritation. May cause skin irritation or burns with prolonged contact. May stain the skin. May cause a rash and itching of the skin.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	LC50 (inhalation)	LD50 (oral)
Glutaraldehyde	NA	CEIL - 0.02 ppm	480 mg/m ³ /4 rat	134 mg/kg rat
Quaternary ammonium chloride	NA	NA	NA	84 mg/kg rat
Alkyl dimethyl benzyl ammonium chloride (C12-16)	NA	NA	NA	426 mg/kg rat
Ethanol	1000 ppm	1000 ppm TWA	20000 ppm/10 rat	7060 mg/kg rat
Water	NA	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:

Obtain medical assistance immediately. Do not induce vomiting, unless directed to do so by a physician. Do not give anything to drink. Never give anything by mouth to an unconscious person. Get medical attention.

EYES:

Flush eyes with gently flowing luke warm water. Obtain immediate medical attention.

SKIN:

In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Seek medical attention if irritation persists.

5 FIRE FIGHTING MEASURES

FLASHPOINT (METHOD):

210°F

LOWER EXPLOSION LIMIT (% v/v):

Not available

UPPER EXPLOSION LIMIT (% v/v):

Not available

SPECIAL HAZARDS:

Toxic vapors may be emitted in a fire situation.

EXTINGUISHING MEDIA:

Water fog. 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:

Hydrocarbons. Oxides of carbon.

6 ACCIDENTAL RELEASE MEASURES

Evacuate area - warn other workers of spill. Remove sources of ignition. Use only explosion proof transfer equipment. Prevent from entering sewers or waterways. Cover spill with absorbent material. Scoop absorbed material into a suitable container for disposal.

7 HANDLING AND STORAGE

HANDLING:

Avoid contact with skin and eyes. Wear specified protective equipment. Wash hands before eating and smoking.

STORAGE REQUIREMENTS:

Keep container closed when not in use. Keep away from heat. Store away from sunlight.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

SPECIFIC ENGINEERING CONTROLS:

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

PERSONAL PROTECTIVE EQUIPMENT:

Chemical resistant goggles or face shield. Butyl rubber gloves. Neoprene gloves. Coveralls. Rubber apron. Rubber boots.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Colorless To Yellow
ODOR:	Fruity
ODOR THRESHOLD:	Not available
SPECIFIC GRAVITY:	1.05 +/- 0.04
VAPOR PRESSURE:	0.2 mmHg @20C
VAPOR DENSITY (air = 1):	Not available
EVAPORATION RATE:	Not available
BOILING POINT:	210 F (99.3 C)
FREEZING POINT:	Not available
pH:	4.5 +/- 1.0
VISCOSITY (F):	6.233 mm ² /s (cSt)
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:

Hydrocarbons. Oxides of carbon.

HAZARDOUS POLYMERIZATION:

Will not occur.

11 TOXICOLOGICAL PROPERTIES

CHRONIC EFFECTS:

Prolonged or repeated exposure may result in redness and itchiness of the skin.

SENSITIZATION:

May cause an allergenic skin response in some individuals. May cause an allergic respiratory reaction in hypersensitive individuals.

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 mutagenic

REPRODUCTIVE TOXICITY:

Ingestion of ethanol and/or glutaraldehyde by pregnant women can cause reproductive toxicity to the fetus.

12 ECOLOGICAL INFORMATION

Very toxic to aquatic organisms.

13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Disposal should be made in accordance with national and local regulations.

14 TRANSPORT INFORMATION

LAND TRANSPORT (DOT)

Proper Shipping Name: Disinfectants, Liquid, Corrosive N.O.S.
Technical Name(s): Quaternary ammonium compound
UN/ID No.: UN 1903
Hazard Class - Primary: 8
Hazard Class - Secondary:
Packing Group: III
Reportable Quantity (RQ):
Emergency Response Guide #: 153

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name: Disinfectants, Liquid, Corrosive N.O.S.
Technical Name(s): Quaternary ammonium compound
UN/ID No.: UN 1903
Hazard Class - Primary: 8
Hazard Class - Secondary:
Packing Group: III

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name: Disinfectants, Liquid, Corrosive N.O.S.
Technical Name(s): Quaternary ammonium compound
UN No.: UN 1903
Hazard Class - Primary: 8
Hazard Class - Secondary:
Packing Group: III
EmS:

15 REGULATORY INFORMATION

SARA TITLE III:

SECTION 302/304 Hazardous Substance: This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.
SECTION 311/312: Immediate, Delayed
SECTION 313 Chemicals: 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 may contain trace quantities of substances that are regulated under California Proposition 65.

PRIORITY POLLUTANTS:

16 OTHER INFORMATION

ISSUE DATE: 07/08/2010
PREPARED BY: BJ Services HSE Department

REFERENCES:
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.

	BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET	Region USA
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1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Clay Master-5C**
Item Number: 499808, 488375
Product Use: Clay control
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: 1
REACTIVITY: 0
PERSONAL PROTECTION: d

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS#	Percent	Hazard
Complex polyamine salt	138879-94-4	30-60	

3 HAZARDS IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE: Inhalation. Skin contact.

ACUTE OVEREXPOSURE EFFECTS:

INHALATION: Not a likely exposure route. Inhalation of solution vapor or mist may cause mild respiratory tract irritation.

INGESTION: Not a likely exposure route. Ingestion may cause mild irritation to the mouth, throat and esophagus.

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: Prolonged contact may cause mild irritation.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	LC50 (Inhalation)	LD50 (oral)
Complex polyamine salt	NA	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:

Rinse mouth with water several times. Do not induce vomiting. Give victim plenty of water. Obtain medical attention immediately.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and 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 launder before reuse. Get medical attention if irritation persists.

5 FIRE FIGHTING MEASURES

FLASHPOINT (METHOD):

None

LOWER EXPLOSION LIMIT (% v/v):

Not applicable

UPPER EXPLOSION LIMIT (% v/v):

Not applicable

AUTO-IGNITION TEMPERATURE:

Not applicable

SPECIAL HAZARDS:

Product may burn in fire conditions.

EXTINGUISHING MEDIA:

Water fog, carbon dioxide, foam, dry chemical.

SPECIAL FIREFIGHTING PROCEDURES:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires.

Cool exposed containers with water spray.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of carbon and nitrogen.

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:

Wear specified protective equipment. Use only in a well ventilated area.

STORAGE REQUIREMENTS:

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

SPECIFIC ENGINEERING CONTROLS:

Use only in a well ventilated area. Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT:

Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Chemical resistant goggles. Rubber gloves. Coveralls.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

Liquid

COLOR:

Clear amber

ODOR:

Sweet

ODOR THRESHOLD:

Not available

SPECIFIC GRAVITY:

1-14-1.18

VAPOR PRESSURE: Not available
VAPOR DENSITY (air = 1): Not available
EVAPORATION RATE: Not available
BOILING POINT: Not available
FREEZING POINT: -40°C
pH: 6-9
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 and nitrogen.

HAZARDOUS POLYMERIZATION:

Will not occur.

11 TOXICOLOGICAL PROPERTIES

CHRONIC EFFECTS:

Not determined.

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.

Skeletonema costatum, EC50 (72 h)=4671.5 mg/L

Acartia tonsa, LC50 (48 h)=30.38 mg/L

Scophthalmus maximus, LC50 (96 h)=42.33 mg/L

Corophium volutator, LC50 (240 h)=1349.6 mg/L

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: Environmentally Hazardous Substance, Liquid, N.O.S. Marine Pollutant

Technical Name(s): Quaternary ammonium compound

UN/ID No.: UN 3082

Hazard Class - Primary: 9

Hazard Class - Secondary:

Packing Group: III

Reportable Quantity (RQ):
Emergency Response Guide #: 171

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Marine Pollutant
Technical Name(s): Quaternary ammonium compound
UN/ID No.: UN 3082
Hazard Class - Primary: 9
Hazard Class - Secondary:
Packing Group: III

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Marine Pollutant
Technical Name(s): Quaternary ammonium compound
UN No.: UN 3082
Hazard Class - Primary: 9
Hazard Class - Secondary:
Packing Group: III
EmS: F-A, S-F
Marine Pollutant: Yes

15 REGULATORY INFORMATION

SARA TITLE III:

SECTION 302/304 Hazardous Substance. 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: 04/30/2010
PREPARED BY: BJ Services HSE Department

REFERENCES:

Suppliers' Literature.
CCINFO Web Information Service, Canadian Centre for Occupational Health and Safety, 2006.
International Marine Dangerous Goods Code, 2002 Edition, International Maritime Organisation, 2002.
Dangerous Goods Regulations, 47th ed., International Air Transport Association, 2006.
TDG Clear Language Regulations, as published in the Canada Gazette Part II, August 2001.

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	BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET	Region USA
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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: 9

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/m3, 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

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.



**BJ SERVICES COMPANY
MATERIAL SAFETY DATA SHEET**

Region
USA

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **InFlo 250W**
Item Number: 488429, 488430
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: 9

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. Skin contact.

ACUTE OVEREXPOSURE EFFECTS:

INHALATION: None known.

INGESTION: May be harmful if swallowed.

EYE CONTACT: Contact with liquid may cause eye irritation.

SKIN CONTACT: May cause skin irritation. May cause redness and blistering of skin.

EXPOSURE LIMITS:

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

Chemical resistant gloves. Chemical resistant goggles. Coveralls. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. (Cartridge respirator)

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Clear/yellow
ODOR:	None
ODOR THRESHOLD:	Not available
SPECIFIC GRAVITY:	0.9 - 1.0
VAPOR PRESSURE:	Not available
VAPOR DENSITY (air = 1):	Not available
EVAPORATION RATE:	Not available
BOILING POINT:	Not available
FREEZING POINT:	Not available
pH:	8 - 11 (1% solution)
VISCOSITY (F):	Not available
SOLUBILITY IN WATER:	Soluble

10 STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use.

INCOMPATIBILITY/CONDITIONS OF REACTIVITY:

Contact with oxidizing agents. Contact with strong acids. Reducing agents.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Oxides of carbon and nitrogen.

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: Combustible liquid, n.o.s.
Technical Name(s): 2-Butoxyethanol, Methanol
UN/ID No.: NA 1993
Hazard Class - Primary: Combustible
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): 2-Butoxyethanol, Methanol
UN/ID No.: UN 1993
Hazard Class - Primary: Flammable
Hazard Class - Secondary:
Packing Group: III

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name: Flammable Liquid, n.o.s.
Technical Name(s): 2-Butoxyethanol, Methanol
UN No.: UN 1993
Hazard Class - Primary: Flammable
Hazard Class - Secondary:
Packing Group: III
EmS:

15 REGULATORY INFORMATION

SARA TITLE III:

SECTION 302/304 Hazardous Substance: 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: 02/20/2009
PREPARED BY: BJ Services Environmental Group

REFERENCES:

CCINFO Web Information Service, Canadian Centre for Occupational Health and Safety, 2006.
Guide to Occupational Exposure Values - 2006, American Conference of Governmental Industrial Hygienists, 2006.
Supplier's Literature.
SAX's Dangerous Properties of Industrial Materials
Suspect Chemicals Sourcebook
Dangerous Goods Regulations, 48th ed., International Air Transport Association, 2007.

The information contained herein is based on data considered accurate. However, no warranty is expressed or

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