



BJ SERVICES COMPANY MATERIAL SAFETY DATA SHEET

Region
USA

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: **FAC-1W**
Item Number: 488325
Product Use: Gellant - Surfactant
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: 2
FLAMMABILITY: 3
REACTIVITY: 0
PERSONAL PROTECTION: g

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS#	Percent	Hazard
Isopropanol	000067-63-0	15-40	Flammable
Trimethyloctadecylammonium chloride	000112-03-8	40-70	Skin irritant
N^N-Dimethyloctadecylamine	000124-28-7	< 2	
N^N-Dimethyloctadecylamine hydrochloride	001613-17-8	< 2	

3 HAZARDS IDENTIFICATION

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

ACUTE OVEREXPOSURE EFFECTS:

INHALATION: Inhalation of solution vapor or mist may cause respiratory tract irritation. Excessive inhalation may cause headache, dizziness and nausea.

INGESTION: Ingestion may cause irritation to the mouth, throat and esophagus. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central nervous system depression.

EYE CONTACT: May cause severe eye irritation. May cause corneal injury.

SKIN CONTACT: May cause skin irritation or burns with prolonged contact.

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	ACGIH TLV	OSHA PEL	LC50 (inhalation)	LD50 (oral)
Isopropanol	200 ppm	200 ppm TWA 400 ppm STEL	16000 ppm/8 rat	5045 mg/kg rat
Trimethyloctadecylammonium chloride	NA	NA	NA	536 mg/kg mouse
N^N-Dimethyloctadecylamine	NA	NA	NA	NA
N^N-Dimethyloctadecylamine hydrochloride	NA	NA	NA	200 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:

Rinse mouth with water several times. DO NOT induce vomiting. Give victim plenty of water. Obtain medical assistance immediately. If vomiting occurs naturally, keep head lower than hips to prevent aspiration.

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 water for at least 15 minutes. Remove contaminated clothing and launder before reuse. Seek medical attention.

5 FIRE FIGHTING MEASURES

FLASHPOINT (METHOD):

78°F (PMCC)

LOWER EXPLOSION LIMIT (% v/v):

2 (isopropanol)

UPPER EXPLOSION LIMIT (% v/v):

12 (isopropanol)

SPECIAL HAZARDS:

Flammable. May form flammable vapour-air mixture. This product or a component there of can flow along surfaces to reach a distant ignition source and flash back.

EXTINGUISHING MEDIA:

Water fog, carbon dioxide, alcohol 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. 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:

Wear specified protective equipment. Use only in a well ventilated area. Use only spark-proof and explosion-proof tools and equipment.

STORAGE REQUIREMENTS:

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

Keep away from incompatible materials. Protect from freezing.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

SPECIFIC ENGINEERING CONTROLS:

Use only in a well ventilated area. Adequate ventilation should be provided to keep concentrations below acceptable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:

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

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Colorless/pale yellow
ODOR:	Alcohol
ODOR THRESHOLD:	Not available/applicable
SPECIFIC GRAVITY:	0.9
VAPOR PRESSURE:	Not available/applicable
VAPOR DENSITY (air = 1):	Not available/applicable
EVAPORATION RATE:	Not available/applicable
BOILING POINT:	Not available/applicable
FREEZING POINT:	-13°C
pH:	6-9 (10% sol.)
VISCOSITY (F):	68 cps @ 77 F
SOLUBILITY IN WATER:	Partial

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:

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): Isopropanol
Hazard Class - Primary: 3
UN/ID No.: UN 1993
Packing Group: III
Subsidiary Risk:
Reportable Quantity (RQ):
Emergency Response Guide #: 128

AIR TRANSPORT (ICAO/IATA)

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

MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name: FLAMMABLE LIQUID,N.O.S.
Technical Name(s): Isopropanol
Hazard Class - Primary: 3
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 Fire, 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: None of the chemicals on the current Proposition 65 list are

known to be present in this product.

PRIORITY POLLUTANTS:

16 OTHER INFORMATION

ISSUE DATE: 07/13/2006

PREPARED BY: BJS HSE Department

REFERENCES:

Supplier's 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.

Guide to Occupational Exposure Values - 2006, American Conference of Governmental Industrial Hygienists, 2006.

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.

