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HMIS Ratings	
Health	2
Flammability	1
Reactivity	
PPE	C

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name FD-634
UN# Not Regulated
Recommended Use Drilling Foamer
Manufactured by: X-Chem, LLC
 6120 Jefferson Hwy
 Harahan, LA 70123
 Telephone: 1 504 733 1477
Emergency Telephone Number 1 800 424 9300 Chemtrec

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA HAZARDS

GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statement(s)
 H301: Toxic if swallowed
 H315: Causes skin irritation
 H319: Causes serious eye irritation
 H335: May cause respiratory irritation

Precautionary statement(s)
 P210 **Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**
 P280 **Wear protective gloves/ protective clothing/ eye protection/ face protection.**
 P331 **Do NOT induce vomiting**
 P370 + P378 **In case of fire: Evacuate area. Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.**
 P403 + P235 **Store in a well-ventilated place. Keep cool.**
 P501 **Dispose of contents/ container to an approved waste disposal plant.**

HMIS Classification

Health hazard: 2
 Chronic Health Hazard: *
 Flammability: 1
 Physical hazards: 0
 NFPA Rating
 Health hazard: 2
 Fire: 1
 Reactivity Hazard: 0

Potential Health Effects

Inhalation May cause respiratory tract irritation and central nervous system depression
 Skin Causes skin irritation.
 Eyes Causes severe eye irritation.
 Ingestion Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula Mixture

Chemical name	CAS No.	Weight-%
Ammonium Alkyl Ether Sulfate	Not Available	10-30
Cocamidopropyl Hydroxysultaine	68139-30-0	1-15
Ethylene Glycol	107-21-1	1-10
Ethoxylated Alcohols	Not Available	<5
2-Butoxyethanol	111-76-2	<1
1,2-Propanediol	57-55-6	<1

4. FIRST AID MEASURES

General Advice Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.

Eye Contact Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Get medical attention immediately.

Skin Contact If on skin, rinse well with plenty of soap and water. If on clothes, remove clothes. If skin irritation persists, call a physician. Wash clothes before wearing again.

Inhalation Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or get medical help immediately.

Ingestion DO NOT induce vomiting. Wash out mouth with water (Do not swallow). Never give anything by mouth to an unconscious person. Contact poison control or get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Conditions of flammability
 Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media
 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a water jet.

Special protective equipment for firefighters
 Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, sulfur oxides, possibly corrosive amines and other hydrocarbons.

Further information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep out of low areas.
Methods for Containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.
Methods for Cleaning Up	Should not be released into the environment.
Large Spills:	Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. After removal flush contaminated area thoroughly with water.
Small Spills:	Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
Storage	Keep away from heat and sources of ignition. The pressure in sealed containers can increase under the influence of heat. Keep containers tightly closed in a cool, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a closed container away from incompatible materials. Use care in handling/storage. Use appropriate container to avoid environmental contamination. Store in accordance with local/regional/national/international regulation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium Alkyl Ether Sulfate	No data available	No data available	No data available
Cocamidopropyl Hydroxysultaine	No data available	No data available	No data available
Ethylene Glycol	100 mg/m ³	50 ppm (ceiling)/125 mg/m ³	No data available
Ethoxylated Alcohols	No data available	No data available	No data available
2-Butoxyethanol	20 ppm	20 ppm	700 ppm
1,2-Propanediol	No data available	No data available	No data available

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

- Eye/Face Protection** Eye protection, such as chemical splash goggles and/or safety glasses, must be worn when possibility exists for eye contact due to spraying liquid or airborne particles. Contact lenses must not be worn.
- Skin and Body Protection** Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, chemical resistant footwear, lab coat or chemical resistant apron. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate NIOSH certified respirators.
- Hygiene Measures** Do not get this material in your eyes, on your skin, or on your clothing. Wash hands before breaks and immediately after handling the product. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light Yellow	Odor	Mild
Physical State	Liquid	Auto ignition Temperature	No data available
Flash Point	>140°F	Pour Point	No data available
Boiling Point/Range	No data available	Flammability Limits in Air	No data available
		pH (100%)	6.2
Explosion Limits	No data available	Percent volatile	No data available
Specific Gravity	1.061	Solubility in Water	Complete
Evaporation Rate	No data available	Vapor Pressure	No data available
Vapor Density	No data available	Odor Threshold	No data available

10. STABILITY AND REACTIVITY

- Stability** Stable under normal and anticipated storage conditions
- Incompatible Products** May react with oxidizing agents, such as chlorates, nitrates, peroxides, etc.
- Conditions to Avoid** Avoid contact with strong oxidizers, heat, flames and sparks. Extremes of temperature and direct sunlight.
- Hazardous Decomposition Products** Carbon oxides, sulfur oxides and possible corrosive amines/other hydrocarbons.
- Hazardous Polymerization** None expected under normal operating conditions.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information The product itself has not been tested.

Irritation Eye, skin and respiratory tract irritant

Component Information

Chemical name	Oral LD50	Dermal LD50	LC50 Inhalation
Ammonium Alkyl Ether Sulfate	No data available	No data available	No data available
Cocamidopropyl Hydroxysultaine	Rat 5600 mg/kg	No data available	No data available
Ethylene Glycol	Rat 4700 mg/kg	Rabbit 9530 mg/kg	No data available
Ethoxylated Alcohols	No data available	No data available	No data available

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2-Butoxyethanol	No data available	rabbits 490 mg/kg	No data available
1,2-Propanediol	Rat 20000 mg/kg	Rabbit 20800 mg/kg	No data available

Sensitization Not expected to be hazardous by OSHA criteria.

Chronic effects Prolonged skin contact may produce skin dryness and cracking.

Carcinogenicity Not expected to be hazardous by OSHA criteria.

ACGIH Carcinogens No ingredients of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

IARC No ingredients of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP No ingredients of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Neurological effects Not expected to be hazardous by OSHA criteria.

12. ECOLOGICAL INFORMATION

Ecotoxicity – The product itself has not been tested.

Chemical name	Toxic to Algae	Toxic to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Ammonium Alkyl Ether Sulfate	No data available	No data available	No data available	No data available
Cocamidopropyl Hydroxysultaine	No data available	No data available	No data available	No data available
Ethylene Glycol	No data available	LC50 / 96 hours Rainbow Trout - 18,500 mg/L	No data available	LC50 /48 hours Water flea - 41,000 mg/L
Ethoxylated Alcohols	No data available	No data available	No data available	No data available
2-Butoxyethanol	No data available	No data available	No data available	No data available
1,2-Propanediol	No data available	LD50 / 96 hours Pimephales promelas (fathead minnow)-52,930 mg/l	No data available	No data available

Bioaccumulation / Accumulation

Bioaccumulative potential: No data available

Biodegradability: No data available

Additional ecological information: No data available

13. DISPOSAL CONSIDERATIONS

Disposal instructions Do not allow this material to drain into sewers/water supplies. Do not contaminate open waterways. Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORTATION INFORMATION

DOT	Not Regulated
IATA	Not Regulated
IMDG/IMO	Not Regulated
TDG	Not Regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2)	Not regulated.
DEA Essential Chemical Code Number	Not regulated.
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))	Not regulated.
DEA Exempt Chemical Mixtures Code Number	Not regulated.
CERCLA (Superfund) reportable quantity	Ethylene Glycol 5000 lbs

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Ethylene Glycol	107-21-1	07-01-2007

SARA 311/312 Hazards Acute, Chronic (Ethylene Glycol)

U.S. State Regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This product contains a chemical known to the State of California known to be a reproductive toxin.

	CAS-No.
Ethylene Glycol	107-21-1

US - New Jersey RTK - Substances:	Listed substance Ethylene Glycol
US - Pennsylvania RTK - Hazardous Substances:	Listed substance Ethylene Glycol
US - Massachusetts RTK - Hazardous Substances:	Listed substance Ethylene Glycol

16. OTHER INFORMATION

Prepared By XCHEM LLC EHS

Issuing Date 29 July 2014

Revision Date NA

Reason for Revision

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Unless updated, the Safety Data Sheet is valid until 07/29/2016