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Version: 03

## Material Safety Data KELZAN® L

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **KELZAN® L**

End Use: Oil Field Drilling Fluid Compound

Chemical Name(s) not applicable, mixture

Chemical Family: not applicable, mixture

Company: **Kelco Oil Field Group, Division of CP KELCO ApS, 10920 W. Sam Houston Parkway North, Suite 800, Texas 77064 USA**  
(800) 331 3677 For additional non-emergency information  
(713) 895 7575 8 a.m. - 5 p.m. (Central Time) weekdays

Emergency telephone number for chemical emergency, spill leak, fire, exposure, or accident:

#### **CHEMTREC**

**1-800-424-9300** Day or Night -. Toll free in the continental U.S., Hawaii, Puerto Rico, Canada, Alaska, or Virgin Islands.

**703-527-3887** For calls originating elsewhere, collect calls accepted.

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>% WEIGHT</u>
dipropylene glycol methyl ether	34590-94-8	60%
xanthan gum	11138-66-2	

### 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

*Appearance And Odor:* cream-colored fluid suspension with ether-like odor

*D.O.T. Hazard Classification:* Non-hazardous material.

*OSHA Hazard:* Warning: Combustible liquid and vapor. May cause eye and skin irritation. Handle in a manner consistent with good industrial hygiene practices--avoid creating or inhaling aerosols of this or any other material.

#### **Potential Health Effects:**

*Likely Routes Of Exposure:* skin contact and inhalation

*Eye Contact:* May cause pain, redness, and tearing based on human experience with dipropylene glycol methyl ether.

*Skin Contact:* May cause pain, redness, and swelling based on human experience with dipropylene glycol methyl ether.

*Inhalation:* Dipropylene glycol methyl ether may cause central nervous system (CNS) depression. Excessive exposure may result in headache, dizziness, lack of coordination, nausea, loss of appetite and loss of consciousness.

*Ingestion:* No more than slightly toxic if swallowed based on toxicity studies of the components. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Refer to **Section 11** for toxicological information.

#### 4. FIRST AID MEASURES

IF IN EYES OR ON SKIN, immediately flush the area with plenty of water. If easy to do, remove any contact lenses. Remove contaminated clothing. Get medical attention if irritation persists. Wash clothing before reuse.

IF INHALED, immediate first aid is not likely to be required. However, if symptoms occur, remove to fresh air. If discomfort persists, contact a physician. Remove material from eyes, skin and clothing.

IF SWALLOWED, immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice.

#### 5. FIRE FIGHTING MEASURES

*Flash point:* Approximately 160 degrees F METHOD: Tag Closed Cup

*Hazardous products of combustion:* Carbon dioxide, carbon monoxide

*Extinguishing media:* In case of fire, use water, dry chemical, CO<sub>2</sub>, or alcohol foam.

*Unusual fire and explosion hazards:* Do not spray pool fires directly; a solid stream of water or foam directed into hot burning liquid can cause frothing

*Fire fighting equipment:* Fire fighters and others exposed to products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

#### 6. ACCIDENTAL RELEASE MEASURES

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water

Refer to **Section 13** for disposal information and **Section 15** for reportable quantity information.

#### 7. HANDLING AND STORAGE

Keep away from heat and flame.  
Avoid contact with eyes, skin, and clothing.  
Wash thoroughly after handling.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.

STORAGE: Storage under nitrogen will minimize the possibility of dipropylene glycol methyl ether forming highly reactive peroxides upon extended contact with oxygen in air.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

SKIN PROTECTION: Wear appropriate protective clothing and chemical resistant gloves to prevent skin contact. Consult the glove/clothing manufacturer to determine the appropriate type glove/clothing for a given application. Wear face shield and chemical resistant clothing when splashing is likely. Wash

contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

**RESPIRATORY PROTECTION:** Avoid breathing (specify vapor, mist, dust, fume, etc.). Use NIOSH/MSHA approved respiratory protection equipment (full face piece recommended) when airborne exposure limits are exceeded (see below). If used, full face piece replaces the need for face shield and/or chemical goggles). Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134.

**VENTILATION:** Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

**AIRBORNE EXPOSURE LIMITS:**

PRODUCT NAME/COMPONENT:	OSHA PEL	ACGIH TLV
dipropylene glycol methyl ether	100 ppm (skin) *	150 ppm, 15 min. STEL (skin) *
xanthan gum	not established	not established

\* Skin notation means that skin absorption of this material may add to the overall exposure. Avoid skin contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	cream-colored fluid suspension
Odor:	ether-like
pH:	approx. neutral (as a 1% solution)
Boiling Point:	> 300 degrees F
Freezing Point:	below -100 degrees F
Vapor Pressure:	approx. 0.4 @ 77 degrees F
Viscosity:	not applicable
Specific Gravity:	approx. 1.1
Bulk Density:	not applicable
Solubility in Water:	100%, forming viscous solutions

**NOTE:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

**10. STABILITY AND REACTIVITY**

**Stability:** Product is stable under normal conditions of storage and handling. However, as with any ether, the dipropylene glycol methyl ether may be capable of forming highly reactive peroxides upon extended contact with oxygen in air. Storage under nitrogen will minimize this possibility. It is recommended that product exposed to air not be highly concentrated by evaporation without first assuring that no peroxide is present.

**Materials to avoid:** Strong oxidizers

**Hazardous decomposition products:** Thermal decomposition products may include carbon dioxide and carbon monoxide.

**Hazardous polymerization:** Will not occur

**11. TOXICOLOGICAL INFORMATION**

This material has not been tested as a whole. Data from laboratory studies conducted and from the scientific literature with the components are summarized below.

**Dipropylene glycol methyl ether**

This component may cause eye and skin irritation. It possesses narcotic-like properties; excessive exposure may result in headache, dizziness, lack of coordination, nausea, loss of appetite, and loss of consciousness.

Single-dose (acute) animal studies indicate that this material is practically nontoxic orally (rats) and after skin application (rabbits). Observations in animals include minor liver and kidney effects. No adverse genetic changes were reported in standard tests using animal cells.

**Diutan gum**

Oral - rat LD50: > 5,000 mg/kg;                      Practically nontoxic

Eye Irritation – rabbit:                                      Not irritating

Skin Irritation – rabbit:                                      Not irritating

No skin allergy was observed in guinea pigs following repeated skin exposure.

No adverse effects were observed in long-term feeding studies with rats (up to 1,000 mg/kg/day) and dogs (up to 1,000 mg/kg/day). No adverse effects were observed in a 3-generation reproduction study with rats (up to 500 mg/kg/day).

**12. ECOLOGICAL INFORMATION**

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity. A legend summarizing the classification scheme appears below.

- 96-hr LC50; mysid shrimp, using 5% **KELZAN® L** in a standard drilling mud: 750,000 ppm suspended particulate phase.

Legend for Aquatic Organism Toxicity (Journal of the European Communities, Annex VII A, Section 5.2.1)

Values	Classifications
LC50 or EC50 < or = 1.0 mg/L	Very Toxic
LC50 or EC50 > 1.0 mg/L and < or = 10 mg/L	Toxic
LC50 or EC50 > 10 mg/L < or = 100 mg/L	Harmful
LC50 or EC50 > 100 mg/L	Practically Nontoxic

**13. DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local, state, and federal regulations. Dry or wet solid material can be landfilled in accordance with local, state, and federal regulations. Liquids may be sewerred in accordance with local, state, and federal regulations if care is taken to avoid pluggage or blockage of sewer systems recognizing that these materials are intended to increase viscosity and form gels.

**14. TRANSPORT INFORMATION**

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

This product is not hazardous under the applicable DOT, ICAO/IATA, or IMDG regulations.

**15. REGULATORY INFORMATION**

*Chemical Inventories Status:*

**Dipropylene glycol methyl ether** is listed on the following chemical inventories: TSCA Inventory, European Inventory (EINECS Inventory Number: 2521042), Canadian Domestic Substances List (DSL), Australian Inventory of Chemical Substances (AICS), Korean inventory of Chemicals; Japanese Inventory (ENCS), Phillipine Inventory (PICCS), and Inventory of Existing Chemicals in China

**Xanthan gum** is listed on the following chemical inventories: TSCA Inventory, European Inventory of Existing Chemical Substances (EINECS), Canadian Domestic Substances List (DSL), Australian Inventory of Chemical Substances (AICS), Korean Existing Chemicals List (ECL), Japanese Inventory (ENCS), Phillipine Inventory (PICCS), and Inventory of Existing Chemicals in China

*SARA Hazard Notification*

*Hazard Categories Under Title III Rules (40 CFR 370):* immediate, fire

*Section 302 Extremely Hazardous Substances:* Not applicable

*Section 313 Toxic Chemical(s):* Not applicable

*CERCLA Reportable Quantity:* Not applicable

Refer to **Section 11** for OSHA Hazardous Chemical(s) and **Section 13** for RCRA classification.

**16. OTHER INFORMATION**

*MSDS produced in accordance with:* ANSI Z400.1-1998.

*Reason for version:* Revised D.O.T / OSHA statements; New format; Company address change

	<i>Health</i>	<i>Fire</i>	<i>Reactivity</i>
<i>HMIS RATINGS:</i>	1	2	0
<i>NFPA RATINGS:</i>	1	2	0

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