

A HUBER COMPANY

Revision Date 27/Nov/2006

Revision Number 0.1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	XANVIS® L
Product Use	Oil field drilling fluid compound
Chemical Name	slurry mixture
Company	Kelco Oil Field Group Division of CP KELCO ApS 10920 W. Sam Houston Parkway North Suite 800 Houston, Texas 77064 USA
Telephone	1 800 331 3677 For additional non-emergency information +1 713 895 7575 1 8 a.m. - 5 p.m. (Central Time) weekdays
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Emergency Telephone Number	CHEMTREC: 1 800 424 9300 or International +1 703 527 3887
Email	kofg@cpkelco.com
Internet	www.kofg.com

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	cream
Physical State	slurry
Odor	ether-like
D.O.T. Hazard Classification	Non-hazardous material
OSHA Regulatory Status	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.
Slip Hazard	Slip hazard when spilled.

Potential Health Effects

2. HAZARDS IDENTIFICATION

Principle Routes of Exposure Inhalation. Skin contact.

Acute Effects

Eyes May cause pain, redness, and tearing based on human experience with dipropylene glycol methyl ether.

Skin May cause pain and redness based on human experience with dipropylene glycol methyl ether.

Inhalation 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 evaluation of components.

Additional toxicology information Refer to Section 11

Potential Environmental Effects Refer to Section 12 for Ecological Information
Refer to Section 13 for Disposal Considerations

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT(S)	CAS Number
Dipropylene glycol methyl ether	34590-94-8
Xanthan gum	11138-66-2

Additional Information Dipropylene glycol methyl ether = 60% wt

4. FIRST AID MEASURES

General Advice Remove material from eyes, skin and clothing.
In case of doubt or when symptoms persist, seek medical attention.
Wash heavily contaminated clothing before reuse.

Eye contact Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes. If eye irritation persists, seek medical attention.

Skin contact Wash off with soap and plenty of water.

Inhalation Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Ingestion 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

General Advice Do not spray pool fires directly; a solid stream of water or foam directed into hot burning liquid can cause frothing.

Suitable Extinguishing Media Water. Dry chemical. Carbon dioxide (CO₂). Alcohol foam.

Hazardous Combustion Products carbon dioxide
carbon monoxide

Specific Hazards Do not breath smoke, gases or vapors generated

Special Protective Equipment for Firefighters As in any fire, wear self-contained breathing apparatus (SCBA) pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Equipment should be thoroughly decontaminated after use.

NFPA	Health	1	Flammability	2	Instability	0
HMS	Health	1	Flammability	2	Physical Hazard (Reactivity)	0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wet material on walking surfaces will be extremely slippery.

Methods for Cleaning up 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. Disposal information - Refer to Section 13.

Other information Reportable quantities - Refer to Section 15.

7. HANDLING AND STORAGE

Handling Keep away from heat, flame sparks and other ignition sources.
Remove material from eyes, skin and clothing.
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 Avoid storing near incompatible materials (Refer to Section 10).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
COMPONENT(S)	OSHA PEL	ACGIH TLV
Dipropylene glycol methyl ether	100 ppm (skin) *	150 ppm, 15 min. STEL (skin) *
Xanthan gum	15 mg/m ³ (total dust) 8-hr TWA 5 mg/m ³ (respirable) 8-hr TWA	Not established

*Skin notation means that skin absorption of this material may add to the overall exposure. Avoid skin contact. Dust: OSHA has not established specific exposure limits for this material. However, OSHA has established limits for particulates not otherwise regulated (PNOR) which are the least stringent exposure limits applicable to dusts.

Engineering Controls

Ventilation: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits in this section. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Personal Protective Equipment

Respiratory Protection

Avoid breathing vapor, mist. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposures exceeds established guidelines. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer.

Hand Protection

Gloves are recommended if extended exposure is anticipated.

Eye Protection

Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available. Wear face shield when splashing is likely

Skin and Body Protection

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wear appropriate protective clothing.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	cream
Physical State	slurry
Odor	ether-like
pH	Approximately neutral (as 1% solution)
Boiling Point	> 300 °F
Freeze Point	below -100 °F
Viscosity	Not applicable
Vapor Pressure	approx. 0.4 @ 77 °F
Specific Gravity	approx. 1.1
Bulk Density	Not applicable
Water solubility	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	Stable under recommended storage conditions.
Conditions to Avoid	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 oxidizing agents
Hazardous Decomposition Products	Thermal decomposition products: carbon monoxide carbon dioxide
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

This material has not been tested as a whole. Data from laboratory studies conducted by CP Kelco and/or from the scientific literature on components are summarized below.

Dipropylene glycol methyl ether

Reported Human Effects	Excessive exposure to narcotic-like properties may result in headache, dizziness, lack of coordination, nausea, loss of appetite, and loss of consciousness.
Reported Animal Effects	Single-dose (acute) animal studies (rat): Practically non-toxic. Skin irritation (rabbit): practically non-toxic. Minor liver and kidney effects.
Mutagenicity/Genotoxicity	Not a mutagen in IN VITRO tests

Xanthan gum

LD50 Oral	>5,000 mg/kg rat
Chronic Effects	No adverse effects observed in long-term feeding studies with rats (up to 1,000 mg/kg/day)
Allergy Irritation	No skin allergy observed in guinea pig following repeated skin exposure Non-irritating Skin (rabbit) Non-Irritating Eye (rabbit)
Reproductive Effects	No adverse effects were observed in a 3-generation reproduction study with rats (up to 500 mg/kg/day)

12. ECOLOGICAL INFORMATION

Ecotoxicity	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. 96-hr LC50; mysid shrimp, using 5% KELZAN® L in a standard drilling mud: 750,000 ppm suspended particulate phase.
Dipropylene glycol methyl ether	
48-Hour EC50	Daphnia magna: 1919 mg/l
Xanthan gum	
96-Hour LC50	Rainbow trout: 490 mg/L. Mysid shrimp: > 500,000 ppm suspended particulate phase using 2 lb./bbl. xanthan gum in a standard drilling mud.

48-Hour EC50	Daphnia magna: 980 mg/L.
Persistence / Degradability	This product is biodegradable.
Bioaccumulative Potential	Inherently biodegradable.
Xanthan gum	
BOD	BOD = ~200 mg O2/gram
COD	COD = ~1600 mg O2/gram

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose in accordance with local, state and national regulations.
Contaminated Packaging	Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

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

D.O.T. Hazard Classification	Non-hazardous material
TDG	Not hazardous
IMO / IMDG	Not hazardous
ICAO / IATA	Not hazardous
RID/ADR	Not hazardous

15. REGULATORY INFORMATION

International Inventories

Component(s) of the product are on the following Inventory lists:

- TSCA
- Canada (DSL)
- Europe (EINECS/ELINCS)
- Australia (AICS)
- Korea (ECL)
- Japan
- Philippines (PICCS)
- China

15. REGULATORY INFORMATION

USA

Federal Regulations

SARA Sections 302/304 313; CERCLA RQ:

Note: If no components are listed below, this product is not subject to these referenced SARA and CERCLA regulations.

SARA 311/312 Hazardous Categorization

Fire: Immediate

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

This product is not known to contain a chemical at a level that is expected to pose significant risk under anticipated use conditions.

Canada

WHMIS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Dipropylene glycol methyl ether: B3

16. OTHER INFORMATION

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Reason for Version

Revised in entirety

Disclaimer

The information contained in this Safety Data Sheet to the best of CP Kelco's knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use.

END OF SAFETY DATA SHEET