

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** LGC-37UC

**Revision Date:** 03-Jan-2012

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Trade Name:** LGC-37UC  
**Synonyms:** None  
**Chemical Family:** Blend  
**Application:** Liquid Gel Concentrate

**Manufacturer/Supplier:** Halliburton Energy Services  
 P.O. Box 1431  
 Duncan, Oklahoma 73536-0431  
 Emergency Telephone: (281) 575-5000

**Prepared By:** Chemical Compliance  
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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

| Substances                          | CAS Number | PERCENT  | ACGIH TLV-TWA | OSHA PEL-TWA |
|-------------------------------------|------------|----------|---------------|--------------|
| Dipropylene glycol monomethyl ether | 34590-94-8 | 30 - 60% | 100 ppm (S)   | 100 ppm (S)  |

**3. HAZARDS IDENTIFICATION**

**Hazard Overview:** May cause eye and skin irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May be absorbed through the skin. Repeated overexposure may cause liver and kidney effects. Combustible.

**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. Get medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse.

**Eyes:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Ingestion:** If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat; never give anything to an unconscious person. Get medical attention.

**Notes to Physician:** Not Applicable

## 5. FIRE FIGHTING MEASURES

|   |                |
|---|----------------|
| Flash Point/Range (F):                  | 185Min: > 150  |
| Flash Point/Range (C):                  | 85Min: > 65    |
| Flash Point Method:                     | TCC            |
| Autoignition Temperature (F):           | Not Determined |
| Autoignition Temperature (C):           | Not Determined |
| Flammability Limits in Air - Lower (%): | 1.1            |
| Flammability Limits in Air - Upper (%): | 3              |

**Fire Extinguishing Media** Water fog, carbon dioxide, foam, dry chemical.

**Special Exposure Hazards** Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases.

**Special Protective Equipment for Fire-Fighters** Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**NFPA Ratings:** Health 1, Flammability 2, Reactivity 0  
**HMIS Ratings:** Health 1, Flammability 2, Physical Hazard 0 , PPE: G

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

**Environmental Precautionary Measures** Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning / Absorption** Remove ignition sources and work with non-sparking tools. Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

## 7. HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse. Avoid breathing mist.

**Storage Information** Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 6 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

**Respiratory Protection** If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Organic vapor respirator.

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Normal work coveralls.

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

**Other Precautions** Eyewash fountains and safety showers must be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                |
|--|----------------|
| Physical State:                            | Liquid         |
| Color:                                     | Light tan      |
| Odor:                                      | Ether          |
| pH:  | 5-8.5          |
| Specific Gravity @ 20 C (Water=1):         | 1.1            |
| Density @ 20 C (lbs./gallon):              | 9.16           |
| Bulk Density @ 20 C (lbs/ft3):             | Not Determined |
| Boiling Point/Range (F):                   | 350Min: > 350  |
| Boiling Point/Range (C):                   | 177Min: > 177  |
| Freezing Point/Range (F):                  | Not Determined |
| Freezing Point/Range (C):                  | Not Determined |
| Vapor Pressure @ 20 C (mmHg):              | 0.17           |
| Vapor Density (Air=1):                     | Not Determined |
| Percent Volatiles:                         | 55             |
| Evaporation Rate (Butyl Acetate=1):        | Not Determined |
| Solubility in Water (g/100ml):             | Disperses      |
| Solubility in Solvents (g/100ml):          | Not Determined |
| VOCs (lbs./gallon):                        | Not Determined |
| Viscosity, Dynamic @ 20 C (centipoise):    | Not Determined |
| Viscosity, Kinematic @ 20 C (centistokes): | Not Determined |
| Partition Coefficient/n-Octanol/Water:     | Not Determined |
| Molecular Weight (g/mole):                 | Not Determined |

## 10. STABILITY AND REACTIVITY

|                                      |  |
|--------------------------------------|--|
| Stability Data:                      | Stable                                 |
| Hazardous Polymerization:            | Will Not Occur                         |
| Conditions to Avoid                  | Keep away from heat, sparks and flame. |
| Incompatibility (Materials to Avoid) | Strong oxidizers.                      |
| Hazardous Decomposition Products     | Carbon monoxide and carbon dioxide.    |
| Additional Guidelines                | Not Applicable                         |

## 11. TOXICOLOGICAL INFORMATION

|                                 |  |
|---------------------------------|--|
| Principle Route of Exposure     | Eye or skin contact, inhalation.   |
| Inhalation                      | May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.  |
| Skin Contact                    | May cause skin irritation. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.  |
| Eye Contact                     | May cause eye irritation.  |
| Ingestion                       | May be harmful if swallowed. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions. |
| Aggravated Medical Conditions   | Skin disorders.  |
| Chronic Effects/Carcinogenicity | Repeated overexposure may cause liver and kidney effects.  |

**Other Information**                      None known.

### **Toxicity Tests**

**Oral Toxicity:**                      Not determined

**Dermal Toxicity:**                      Not determined

**Inhalation Toxicity:**                      Not determined

**Primary Irritation Effect:**                      Not determined

**Carcinogenicity**                      Not determined

**Genotoxicity:**                      Not determined

**Reproductive /  
Developmental Toxicity:**                      Not determined

## **12. ECOLOGICAL INFORMATION**

**Mobility (Water/Soil/Air)**                      Not determined

**Persistence/Degradability**                      Not determined

**Bio-accumulation**                      Not determined

### **Ecotoxicological Information**

**Acute Fish Toxicity:**                      Not determined

**Acute Crustaceans Toxicity:** Not determined

**Acute Algae Toxicity:**                      Not determined

**Chemical Fate Information**                      Not determined

**Other Information**                      Not applicable

## **13. DISPOSAL CONSIDERATIONS**

**Disposal Method**                      Disposal should be made in accordance with federal, state, and local regulations.

**Contaminated Packaging**                      Follow all applicable national or local regulations.

## **14. TRANSPORT INFORMATION**

### **Land Transportation**

#### **DOT**

Not restricted

#### **DOT (Bulk)**

NA1993, Combustible Liquid, N.O.S., Combustible Liquid, III  
(Contains Dipropylene Glycol Monomethyl Ether)

#### **Canadian TDG**

Not restricted

#### **ADR**

Not restricted

## Air Transportation

### ICAO/IATA

Not restricted

## Sea Transportation

### IMDG

Not restricted

## Other Transportation Information

Labels: None

## 15. REGULATORY INFORMATION

### US Regulations

**US TSCA Inventory** All components listed on inventory or are exempt.

**EPA SARA Title III Extremely Hazardous Substances** Not applicable

**EPA SARA (311,312) Hazard Class** Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

**EPA SARA (313) Chemicals** This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372: Glycol Ethers//34590-94-8

**EPA CERCLA/Superfund Reportable Spill Quantity** Not applicable.

**EPA RCRA Hazardous Waste Classification** If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

**California Proposition 65** All components listed do not apply to the California Proposition 65 Regulation.

**MA Right-to-Know Law** One or more components listed.

**NJ Right-to-Know Law** One or more components listed.

**PA Right-to-Know Law** One or more components listed.

### Canadian Regulations

**Canadian DSL Inventory** All components listed on inventory or are exempt.

**WHMIS Hazard Class** B3 Combustible Liquids

## 16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS

Not applicable

**Additional Information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

**Disclaimer Statement**

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**\*\*\*END OF MSDS\*\*\***