

# MATERIAL SAFETY DATA SHEET

Product Trade Name: LGC-36

Revision Date: 04-Jan-2011

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: LGC-36 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

Telephone: 1-580-251-4335

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Paraffinic solvent		30 - 60%	Not applicable	Not applicable
Polysaccharide		30 - 60%	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

#### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and

other central nervous system effects. May cause allergic respiratory reaction. May be

harmful if swallowed. Potential carcinogen.

## 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, immediately flush eyes with plenty of water for at least 15 minutes

and get medical attention if irritation persists.

**Ingestion** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek

medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician Not Applicable

## FIRE FIGHTING MEASURES

Flash Point/Range (F): 180 Flash Point/Range (C): 82 Flash Point Method: COC

**Autoignition Temperature (F):** Not Determined **Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (%): Not Determined Flammability Limits in Air - Upper (%): Not Determined

Fire Extinguishing Media Carbon Dioxide, Dry Chemicals, Foam.

Special Exposure Hazards Use water spray to cool fire exposed surfaces. Closed containers may explode in fire.

Decomposition in fire may produce toxic gases.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for fire

fighting personnel.

**NFPA Ratings:** Health 1, Flammability 1, Reactivity 0 **HMIS Ratings:** Health 1, Flammability 1, Reactivity 0

## **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Scoop up and remove.

#### HANDLING AND STORAGE

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after **Handling Precautions** 

use. Launder contaminated clothing before reuse.

Storage Information Store away from oxidizers. Store in a cool well ventilated area. Keep from heat, sparks,

and open flames. Keep container closed when not in use. Product has a shelf life of 24

months.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

good cross ventilation.

**Respiratory Protection** Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Organic vapor respirator with a dust/mist filter.

**Hand Protection** Impervious rubber gloves.

Skin Protection Normal work coveralls.

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists.

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

## PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid Color: Off white

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Mild hydrocarbon

pH: 6.5 - 7.5

Specific Gravity @ 20 C (Water=1): Not Determined

Density @ 20 C (Ibs./gallon): Not Determined

Density @ 20 C (lbs./gallon):

Bulk Density @ 20 C (lbs/ft3):

Not Determined

Not Determined

Boiling Point/Range (F): 392 Boiling Point/Range (C): 200

Freezing Point/Range (F):

Freezing Point/Range (C):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Percent Volatiles:

Evaporation Rate (Butyl Acetate=1):

Not Determined
Not Determined
Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Not Determined

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 respiratory irritation. May cause allergic respiratory reaction. May cause

chemical pneumonia. May cause central nervous system depression including

headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech,

giddiness and unconsciousness.

**Skin Contact** Causes drying of the skin. May cause skin irritation.

**Eye Contact** May cause eye irritation.

**Ingestion** Irritation of the mouth, throat, and stomach. Aspiration into the lungs may cause

chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. 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 Contains petroleum distillates which have been shown to cause skin cancer in

laboratory animals.

LGC-36 Page 3 of 6 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 /

ive / Not determined

**Developmental Toxicity:** 

## 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)

UN1268, Petroleum Distillates, N.O.S., Combustible Liquid, III Classified in accordance with 49 CFR 172.101(d)(4)

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 does not contain a toxic chemical for routine annual "Toxic Chemical

Release Reporting" under Section 313 (40 CFR 372).

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 Does not apply.

PA Right-to-Know Law Does not apply.

**Canadian Regulations** 

**Canadian DSL Inventory** Product contains one or more components not listed on the inventory.

WHMIS Hazard Class B3 Combustible Liquids

D2B Toxic Materials

# 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\*\*\*