

# MATERIAL SAFETY DATA SHEET

Product Trade Name: LGC-VII

Revision Date: 04-Jan-2011

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: LGC-VII
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

e-mail: fdunexchem@halliburton.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Cellulose derivative		30 - 60%	Not applicable	15 mg/m <sup>3</sup>
Diesel	68476-34-6	30 - 60%	100 mg/m <sup>3</sup>	Not applicable

## 3. HAZARDS IDENTIFICATION

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

other central nervous system effects. May be harmful if swallowed. 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** Wash with soap and water. Get medical attention if irritation persists.

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** Get medical attention! If vomiting occurs, keep head lower than hips to prevent

aspiration.

Notes to Physician Not Applicable

# FIRE FIGHTING MEASURES

Flash Point/Range (F): 150 Flash Point/Range (C): 65

Flash Point Method: Not Determined

**Autoignition Temperature (F):** 495 Autoignition Temperature (C): 257 Flammability Limits in Air - Lower (%): 0.7 Flammability Limits in Air - Upper (%): 6

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.

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 2, Reactivity 0 **HMIS Ratings:** Health 1, Flammability 2, Reactivity 0

# **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

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

Scoop up and remove.

## HANDLING AND STORAGE

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

use. Launder contaminated clothing before reuse.

**Storage Information** Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container

closed when not in use.

## **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** Organic vapor respirator with a dust/mist filter.

Hand Protection Impervious rubber gloves.

**Skin Protection** Rubber apron.

**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:** Gel

Color: Light brown Odor: Mild

pH: Not Determined

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity @ 20 C (Water=1): 0.84
Density @ 20 C (lbs./gallon): 7.00

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 300 Boiling Point/Range (C): 148

Freezing Point/Range (F):

Freezing Point/Range (C):

Not Determined

Not Determined

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1): Not Determined

Percent Volatiles: 100

Evaporation Rate (Butyl Acetate=1):

Not Determined

Solubility in Water (g/100ml): Insoluble

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** 

Oxides of nitrogen. 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 central nervous system depression

including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

**Skin Contact** May cause skin defatting with prolonged exposure. May cause skin irritation.

**Eye Contact** May cause eye irritation.

**Ingestion** Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting,

nausea, and diarrhea. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia,

which can be fatal.

Aggravated Medical Conditions Skin disorders.

**Chronic Effects/Carcinogenicity** Prolonged or repeated application of a similar product to the skin of laboratory mice

without washing between applications resulted in increased incidence of skin tumors. It is suspected that tumors may be due in part to severely irritated conditions from continous contact with the product. Limited studies on oils that are very active carcinogens have shown washing the animals' skin with soap and water between applications greatly decreases the incidence of tumors. In light of these studies, good

personal hygiene is essential with the use of this product.

LGC-VII 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 /

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.

Not determined

## 14. TRANSPORT INFORMATION

# **Land Transportation**

DOT

Not restricted

DOT (Bulk)

NA1993, Combustible Liquid, N.O.S., Combustible Liquid, III (Contains Diesel)

Canadian TDG

Not restricted

ADR

Not restricted

## **Air Transportation**

#### ICAO/IATA

Not restricted

# Sea Transportation

**IMDG** 

Not restricted

# **Other Transportation Information**

Labels: Combustible

## 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

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 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

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\*\*\*