

MATERIAL SAFETY DATA SHEET

Product Trade Name: LGC-35

Revision Date: 03-Jan-2012

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: LGC-35 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
Diesel	68476-34-6	30 - 60%	100 mg/m ³	Not applicable
Guar gum	9000-30-0	30 - 60%	10 mg/m ³	15 mg/m ³

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. Potential

carcinogen. 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: **PMCC**

Autoignition Temperature (F): Not Determined Autoignition Temperature (C): Not Determined

Flammability Limits in Air - Lower (%): 0.4 Flammability Limits in Air - Upper (%): 26

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

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. In high concentrations, supplied air

respirator or a self-contained breathing apparatus.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Red brown Color: Odor: Diesel :Ha 6.5-7.5 Specific Gravity @ 20 C (Water=1): 1.08 Density @ 20 C (lbs./gallon): 9.0 Bulk Density @ 20 C (lbs/ft3): 9.0 **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):< 0.2</th>Vapor Density (Air=1):> 1Percent Volatiles:100

Evaporation Rate (Butyl Acetate=1):

Solubility in Water (g/100ml):

Not Determined 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

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 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 Contains petroleum distillates which have been shown to cause skin cancer in

laboratory animals. 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.

Other Information None known.

Toxicity Tests

Not determined **Oral Toxicity:**

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Not determined **Developmental Toxicity:**

ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Slowly biodegradable

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

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, Diesel Fuel Solution, Combustible Liquid, III

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

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 The California Proposition 65 regulations apply to this product.

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