

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

## **LGC-IV WITH DIESEL**

Revision Date: 20-Dec-2012

Revision Number: 8

### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product Identifier****Product Name** LGC-IV WITH DIESEL**1.2 Relevant identified uses of the substance or mixture and uses advised against****Recommended Use** Liquid Gel Concentrate**1.3 Details of the supplier of the safety data sheet**

Halliburton Energy Services  
Halliburton House, Howemoss Place  
Kirkhill Industrial Estate  
Dyce  
Aberdeen, AB21 0GN  
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

[www.halliburton.com](http://www.halliburton.com)

For further information, please contact

**E-Mail address:** [fdunexchem@halliburton.com](mailto:fdunexchem@halliburton.com)**1.4 Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

<b>Emergency telephone - §45 - (EC)1272/2008</b>	
<b>Europe</b>	<b>112</b>
<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>France</b>	ORFILA (FR): + 01 45 42 59 59
<b>Germany</b>	Poison Center Berlin (DE): +49 030 30686 790
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO): +47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20
<b>United Kingdom</b>	NHS Direct (UK): +44 0845 46 47

### **2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

REGULATION (EC) No 1272/2008

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

**Classification** Xn - Harmful.**Risk Phrases** R40 Limited evidence of a carcinogenic effect.

## 2.2 Label Elements

### Hazard Pictograms

Signal Word

Not Hazardous

Hazard Statements

Not Classified

Precautionary Statements - EU (§28, 1272/2008)

Not Classified

Contains

## 2.3 Other Hazards

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

For the full text of the R-phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### 4.1 Description of 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.

#### 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.

#### Skin

Wash with soap and water. Get medical attention if irritation persists.

#### Ingestion

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

### 4.2 Most Important symptoms and effects, both acute and delayed

No information available

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

Treat symptomatically

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

#### Extinguishing media which must not be used for safety reasons

None known.

### 5.2 Special hazards arising from the substance or mixture

#### Special Exposure Hazards

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

### 5.3 Advice for firefighters

#### Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.

See Section 8 for additional information

### **6.2 Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

### **6.3 Methods and material for containment and cleaning up**

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

### **6.4 Reference to other sections**

See Section 8 and 13 for additional information.

## **7. HANDLING AND STORAGE**

### **7.1 Precautions for Safe Handling**

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

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

### **7.2 Conditions for safe storage, including any incompatibilities**

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use.

### **7.3 Specific End Use(s)**

#### **Exposure Scenario**

No information available

#### **Other Guidelines**

No information available

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Exposure Limits**

#### **Derived No Effect Level (DNEL) Worker**

No information available.

#### **General Population**

#### **Predicted No Effect Concentration (PNEC)**

No information available.

### **8.2 Exposure controls**

#### **Engineering Controls**

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

#### **Personal protective equipment**

##### **Respiratory Protection**

Organic vapor respirator with a dust/mist filter. (A2P2/P3) 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.

#### **Environmental Exposure Controls**

No information available

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

**Physical State:** Gel

**Color:** Yellowish

**Odor:** Diesel

**Odor Threshold:** No information available

Property

Values

Remarks/ - Method

<b>pH:</b>	No data available
<b>Freezing Point/Range</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	No data available
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

**9.2 Other information**

<b>VOC Content (%)</b>	No data available
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## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**

Not applicable

**10.2 Chemical Stability**

Stable

**10.3 Possibility of Hazardous Reactions**

Will Not Occur

**10.4 Conditions to Avoid**

Keep away from heat, sparks and flame.

**10.5 Incompatible Materials**

Strong oxidizers.

**10.6 Hazardous Decomposition Products**

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

**11.1 Information on Toxicological Effects****Acute Toxicity****Inhalation**

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

**Eye Contact**

May cause eye irritation.

**Skin Contact**

May cause skin defatting with prolonged exposure. May cause skin irritation.

**Ingestion**

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.

**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.

**Toxicology data for the components**

## 12. ECOLOGICAL INFORMATION

### **12.1 Toxicity** **Ecotoxicity Effects**

### **12.2 Persistence and degradability**

No information available

### **12.3 Bioaccumulative potential**

No information available

### **12.4 Mobility in soil**

No information available

### **12.5 Results of PBT and vPvB assessment**

No information available.

### **12.6 Other adverse effects**

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

### **13.1 Waste treatment methods**

#### **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

### **IMDG/IMO**

<b>UN Number:</b>	Not restricted.
<b>UN Proper Shipping Name:</b>	Not restricted
<b>Transport Hazard Class(es):</b>	Not applicable
<b>Packing Group:</b>	Not applicable
<b>Environmental Hazards:</b>	Not applicable

### **RID**

<b>UN Number:</b>	Not restricted.
<b>UN Proper Shipping Name:</b>	Not restricted
<b>Transport Hazard Class(es):</b>	Not applicable
<b>Packing Group:</b>	Not applicable
<b>Environmental hazard:</b>	Not applicable

### **ADR**

<b>UN Number:</b>	Not restricted.
<b>UN Proper Shipping Name:</b>	Not restricted
<b>Transport Hazard Class(es):</b>	Not applicable
<b>Packing Group:</b>	Not applicable
<b>Environmental hazard:</b>	Not applicable

### **IATA/ICAO**

<b>UN Number:</b>	Not restricted.
<b>UN Proper Shipping Name:</b>	Not restricted

<b>Transport Hazard Class(es):</b>	Not applicable
<b>Packing Group:</b>	Not applicable
<b>Environmental hazard:</b>	Not applicable

**Special Precautions for User** None

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Inventories

**All of the components in the product are on the following Inventory lists:** All of the components in the product are on the following Inventory lists:

<b>EINECS Inventory</b>	This product, and all its components, complies with EINECS
<b>US TSCA Inventory</b>	All components listed on inventory or are exempt.
<b>Canadian DSL Inventory</b>	All components listed on inventory or are exempt.

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**Germany, Water Endangering Classes (WGK)** Not determined.

### 15.2 Chemical Safety Assessment

No information available

## 16. OTHER INFORMATION

### Full text of R-phrases referred to under Sections 2 and 3

R40 Limited evidence of a carcinogenic effect.

### Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Revision Date:** 20-Dec-2012

#### Revision Note

Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010**

#### Disclaimer Statement

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**End of Safety Data Sheet**