## **HALLIBURTON**

## SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

## PETROFREE® LV

Revision Date: 29-Nov-2010 Revision Number: 10

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

**Product Identifier** 

Product Name PETROFREE® LV

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Base Fluid

Uses Advised Against No information available

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

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

**Emergency telephone number** 

+44 1224 795277 or +1 281 575 5000

+44 1224 /952// 01+	-1 281 575 5000			
Emergency telephone §45 - (EC)1272/2008				
Europe	112			
Denmark	Poison Control Hotline (DK): +45 82 12 12 12			
France	ORFILA (FR): + 01 45 42 59 59			
Germany	Poison Center Berlin (DE): +49 030 30686 790			
Italy	Poison Center, Milan (IT): +39 02 6610 1029			
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)			
Norway	Poisons Information (NO):+ 47 22 591300			
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97			
Spain	Poison Information Service (ES): +34 91 562 04 20			
United Kingdom	NHS Direct (UK): +44 0845 46 47			

## 2. HAZARDS IDENTIFICATION

## Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not classified

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 Not Classified

2. HAZARDS IDENTIFICATION

Risk Phrases None

Label Elements
Not classified

**Hazard Pictograms** 

Signal Word Not Hazardous

**Contains** 

SubstancesCAS NumberFatty acid esterProprietary

#### **Other Hazards**

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS						
Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Fatty acid ester	Not Listed	Proprietary	60 - 100%	Not applicable	Not applicable	No data available

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

## 4. FIRST AID MEASURES

Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. 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.

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

No significant hazards expected.

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

Notes to Physician Treat symptomatically

## 5. FIREFIGHTING MEASURES

Extinguishing mediaó

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

Special hazards arising from the substance of mixture

**Special Exposure Hazards** 

Decomposition in fire may produce toxic gases.

\_\_\_\_\_

#### 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

## Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. See Section 12 for additional information

#### **Environmental precautions**

None known.

## 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.

#### Reference to other sections

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

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

Avoid contact with eyes, skin, or clothing.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

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

Store away from oxidizers. Keep container closed when not in use. Product has a shelf life of 36 months.

Specific End Use(s)

Exposure Scenario No information available Other Guidelines No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Fatty acid ester	Not applicable				

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Fatty acid ester	Not applicable				

**Derived No Effect Level (DNEL)**No information available.
Predicted No Effect Concentration
No information available.

(PNEC)

**Exposure controls** 

**Engineering Controls**Use in a well ventilated area.

Personal protective equipment

**Respiratory Protection** Not normally necessary.

**Hand Protection** Impervious rubber gloves. **Skin Protection** Normal work coveralls.

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

Other Precautions None known.

Environmental Exposure Controls No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Revision Date: 29-Nov-2010 **PETROFREE® LV** 

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid Color: Yellowish

Odor: Mild Odor Threshold: No information available

Property Values

Remarks/ Method

pH: No data available Melting Point/Range No data available Freezing Point/Range (C): No data available

**Boiling Point/Range** 

**Flash Point** 147°C

**PMCC** 

**Evaporation rate** No data available No data available **Vapor Pressure** No data available **Vapor Density Specific Gravity** 0.86

Insoluble in water **Water Solubility** 

No data available Solubility in other solvents

Partition coefficient: n-octanol/water 7.6

**Autoignition Temperature** No data available **Decomposition Temperature** No data available No data available **Viscosity Explosive Properties** No information available **Oxidizing Properties** No information available

Other information

**VOC Content (%)** No data available

## 10. STABILITY AND REACTIVITY

Reactivity

Not applicable

**Chemical Stability** 

Stable

**Possibility of Hazardous Reactions** 

Will Not Occur

**Conditions to Avoid** 

None anticipated

**Incompatible Materials** 

Strong oxidizers.

**Hazardous Decomposition Products** 

Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

## Information on Toxicological Effects

**Acute Toxicity** 

Inhalation May cause mild respiratory irritation. **Eye Contact** May cause mild eye irritation. **Skin Contact** May cause mild skin irritation.

Ingestion Not determined

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1%

are chronic health hazards.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fatty acid ester	> 2000 mg/kg	No data available	No data available

## 12. ECOLOGICAL INFORMATION

## **Toxicity**

**Ecotoxicity Effects** 

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	
				Flea)
Fatty acid ester	EC50: > 1000 mg/l	EC50: 3555 mg/l (Corophium	No information available	TLM48: > 1000 mg/l (Acartia
	(Skeletonema costatum)	volutator)		tonsa)

## Persistence and degradability

Readily biodegradable

#### **Bioaccumulative potential**

No information available

## Mobility in soil

No information available

#### Results of PBT and vPvB assessment

No information available.

#### Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

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

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Not restricted Not applicable

RID

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

<u>ADR</u>

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

## IATA/ICAO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): 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

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

#### **International Inventories**

EINECS Inventory This product, and all its components, complies with EINECS

US TSCA Inventory

All components listed on inventory or are exempt.

Canadian DSL Inventory

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/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

WGK 0: Generally not water endangering.

## **Chemical Safety Assessment**

No information available

## **16. OTHER INFORMATION**

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

None

#### Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 29-Nov-2010 Revision Note 29-Nov-2010 Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

**End of Safety Data Sheet**