# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** CFR-6L

**Revision Date:** 02-Dec-2013 **Revision Number: 9** 

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

CFR-6L **Product Trade Name:** Synonyms: None Blend **Chemical Family:** Internal ID Code HM003331

**Product Use** 

Cement Friction Reducer **Application:** 

**Manufacturer's Name and Contact Details** 

Name and Address Halliburton Energy Services

645 - 7th Ave SW Suite 2200

Calgary, AB T2P 4G8 Canada

**Emergency Telephone Number** (281) 575-5000

**Prepared By** Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

# 2. HAZARD(S) IDENTIFICATION

WHIMIS Classification

**Un-Controlled WHMIS Hazard Class** 

WHMIS Symbol(s)

Summary of hazards of the product

**Hazard Overview** May cause mild eye, skin, and respiratory irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS								
Substances	CAS Number	PERCENT (w/w)	HMIRA Registry Number	Filing Date				
Contains no hazardous substances	Mixture	60 - 100%	Not applicable	Not applicable				

4. FIRST AID MEASURES
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**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

May cause mild eye, skin, and respiratory irritation.

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

Notes to Physician Treat symptomatically

# 5. FIRE FIGHTING MEASURES

#### **Extinguishing media**

#### **Suitable Extinguishing Media**

All standard fire fighting media

Extinguishing media which must not be used for safety reasons

None known.

## Special hazards arising from the substance or 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.

#### **Hazardous combustion products**

Oxides of nitrogen. Oxides of sulfur. Carbon monoxide and carbon dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions and emergency producedures

#### **Protective Equipment**

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.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with eyes, skin, or clothing.

## Conditions for safe storage and Incompatible materials for storage

Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use. Product has a shelf life of 24 months.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Occupational Exposure Limits**

**Exposure Limits** 

Substances CAS Number ACGIH TLV-TWA OSHA PEL-TWA

Contains no hazardous Mixture Not applicable Not applicable substances

Appropriate engineering controls

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

Personal Protective Equipment (PPE)

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

respirator is recommended:

Dust/mist respirator. (N95, P2/P3)

**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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid Color: Tan

Odor: Fishy Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ - Method

**pH**: 9.4

pH Concentration of Solution:No information available.Freezing Point/RangeNo information available.Melting Point/RangeNo information available

Boiling Point/Range (C): 104

Flash Point/Range (C):

No information available.

No information available.

**Autoignition Temperature (C):** 

Flammability Limits in Air - Lower (%):

Flammability Limits in Air - Upper (%):

Evaporation Rate (Butyl Acetate=1):

Vapor Pressure @ 20 C (mmHg):

No information available.

No information available.

Vapor Density (Air=1): 1.21
Specific Gravity @ 20 C (Water=1): 1.15
Solubility in Water (g/100ml): Soluble

Solubility in other solvents

Partition Coefficient/n-Octanol/Water:

Decomposition Temperature (C):

Viscosity

Explosive Properties

Oxidizing Properties

No information available.

Other Information

Molecular Weight (g/mole):No information available.VOC Content (%)No information available.

# **10. STABILITY AND REACTIVITY**

Conditions of Reactivity

Conditions to Avoid
Hazardous Polymerization:

None anticipated
Will Not Occur

Chemical Stability

Stable

Sensitivity to Static Discharge

Not available

## **Sensitivity to Mechanical Impact**

Not available

## Incompatible materials

Strong oxidizers.

#### **Hazardous Decomposition Products**

Oxides of nitrogen. Oxides of sulfur. Carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

Routes of entry

Eye or skin contact, inhalation.

#### **Information on Toxicological Effects**

Acute effects from exposure

**Inhalation** Inhalation of mist or heated vapors may cause respiratory irritation.

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

**Ingestion** None known

Chronic effects from exposure

Chronic Effects/Carcinogenicity

No data available to indicate product or components present at greater than 1% are chronic

health hazards.

Irritancy of product

Irritation Non-irritating to the skin Non-irritating to the eye

Sensitization of product

Sensitization Not confirmed to cause skin or respiratory sensitization.

Mutagenicity

Mutagenic Effects Not regarded as mutagenic

Carcinogenicity

Carcinogenic Effects No ingredient of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards

Teratogenicity/embryotoxicity

Teratogenic Not a teratogen or embroytoxin.

# **Toxicologically synergistic material** Not available

#### **Acute Toxicity**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Contains no hazardous	Mixture	No data available	No data available	No data available
substances				

# 12. ECOLOGICAL INFORMATION

# Toxicity

## **Ecotoxicity Effects**

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Contains no hazardous substances	Mixture	No information available	No information available	No information available	No information available

#### Persistence and Degradability

No information available

## Bioaccumlation 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

**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

**Canadian TDG** 

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

IMDG/IMO

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

# 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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Canadian Regulations

Canadian DSL Inventory

All components listed on inventory or are exempt.

WHMIS Hazard Class Un-Controlled

WHMIS Symbol(s)

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

# **16. OTHER INFORMATION**

**Preparation Information** 

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

Revision Date: 02-Dec-2013

Not applicable

**Additional Information** For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products,

contact Chemical Compliance at 1-580-251-4335.

Key or legend to abbreviations and acronyms

WHMIS: Workplace Hazardous Materials Information System

Key literature references and sources for data

www.ChemADVISOR.com/

# **Disclaimer Statement**

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\*\*\*END OF MSDS\*\*\*