## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: CFR-3

Revision Date: 26-Sep-2013

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

Statement of Hazardous Nature Non-Hazardous according to the criteria of NOHSC, Non-Dangerous Goods

according to the criteria of ADG.

Manufacturer/Supplier Halliburton Australia Pty. Ltd.

15 Marriott Road

Jandakot WA 6164 Australia

ACN Number: 009 000 775

Telephone Number: 61 (08) 9455 8300 Fax Number: 61 (08) 9455 5300

**Product Emergency Telephone** 

Australia: 08-64244950

Papua New Guinea: 05 1 281 575 5000

NewZealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000

New Zealand: 111

#### **Identification of Substances or Preparation**

Product Trade Name: CFR-3 Synonyms: None

Chemical Family: Organosulfur

UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code: None Allocated Poisons Schedule: None Allocated

Application: Cement Friction Reducer

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	<b>CAS Number</b>	PERCENT (w/w)	Australia NOHSCNew Zealand		<b>ACGIH TLV-TWA</b>	
				WES		
Contains no hazardous substances	Mixture	60 - 100%	Not applicable	Not applicable	Not applicable	

#### Non-Hazardous Substance to Total of 100%

#### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause mild eye, skin, and respiratory irritation. Airborne dust may be

explosive.

Risk Phrases None

**HSNO Classification** 9.1D Slightly harmful in the aquatic environment

## 4. FIRST AID MEASURES

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

irritation develops or if breathing becomes difficult.

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

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

minutes and 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.

Notes to Physician Not Applicable

## 5. FIRE FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

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

None known.

**Special Exposure Hazards** Decomposition in fire may produce toxic gases. Organic dust in the presence of an

ignition source can be explosive in high concentrations. Good housekeeping

practices are required to minimize this potential.

**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 Precautionary** 

Measures

Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

**Measures** 

None known.

Procedure for Cleaning /

**Absorption** 

Scoop up and remove.

## 7. HANDLING AND STORAGE

Handling Precautions Avoid creating or inhaling dust. Slippery when wet.

**Storage Information** Store away from oxidizers. Store in a cool, dry location.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**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 Normal work 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

Physical State: Solid
Color: Red brown
Odor: Musty
pH: 7-8
Specific Gravity @ 20 C (Water=1): 1.17

Density @ 20 C (kg/l): Not Determined

Bulk Density @ 20 C (kg/M3): 600

**Boiling Point/Range (C):** Not Determined Freezing Point/Range (C): Not Determined Pour Point/Range (C): Not Determined Flash Point/Range (C): Not Determined Flash Point Method: Not Determined **Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (g/m³): Not Determined Flammability Limits in Air - Lower (%): Not Determined Flammability Limits in Air - Upper (g/m³): Not Determined Flammability Limits in Air - Upper (%): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined

Vapor Density (Air=1):

Percent Volatiles:

0

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Not Determined
Not Determined
Not Determined

Molecular Weight (g/mole): > 600

Decomposition Temperature (C): Not Determined

## 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Not Determined

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Oxides of sulfur. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

## 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure** Eye or skin contact, inhalation.

Sympotoms related to exposure

**Acute Toxicity** 

InhalationMay cause mild respiratory irritation.Eye ContactMay cause mild eye irritation.

**Skin Contact** Prolonged or repeated contact may cause slight skin irritation.

**Ingestion** None known

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

health hazards.

Toxicology data for the components

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

#### **Ecotoxicological Information**

**Ecotoxicity Product** 

Acute Fish Toxicity: TLM48: 7478 mg/l (Orange-Red Killfish)
Acute Crustaceans Toxicity: TLM96: > 3300 ppm (Crangon crangon)

Acute Algae Toxicity: Not determined

**Ecotoxicity Substance** 

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

#### 12.2 Persistence and degradability

Not readily biodegradable

#### 12.3 Bioaccumulative potential

Does not bioaccumulate

#### 12.4 Mobility in soil

No information available

## 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method**Bury in a licensed landfill according to federal, state, and local regulations.

Substance should NOT be deposited into a sewage facility.

**Contaminated Packaging** Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

## **Land Transportation**

**ADR** 

Not restricted

## **Air Transportation**

ICAO/IATA

Not restricted

## Sea Transportation

**IMDG** 

Not restricted

## **Other Transportation Information**

Labels: None

#### 15. REGULATORY INFORMATION

#### **Chemical Inventories**

Australian AICS Inventory

**New Zealand Inventory of** 

Chemicals

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

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

All components listed on inventory or are exempt. All components listed on inventory or are exempt.

Classification Not Classified

Risk Phrases None

Safety Phrases None

#### 16. OTHER INFORMATION

The following sections have been revised since the last issue of this SDS

Not applicable

#### Contact

**Australian Poisons Information Centre** 

24 Hour Service: - 13 11 26

Police or Fire Brigade: - 000 (exchange): - 1100

**New Zealand National Poisons Centre** 

0800 764 766

#### **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.

#### **Disclaimer Statement**

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