

## SAFETY DATA SHEET

### CFR-3

Revision Date: 26-Sep-2013

Revision Number: 20

#### 1. Product and Company Identification

**Product Name**

**Product Trade Name:** CFR-3

**Other Names**

**Synonyms:** None

**Product Code:** HM000209

**Recommended Use**

**Recommended Use**

Cement Friction Reducer

**Uses Advised Against** No information available

**Company Name, Address and Contact Details**

**Manufacturer/Supplier** Halliburton New Zealand  
1 Paraite Rd,  
Bell Block, New Plymouth  
New Zealand Registration No.: 824207

**E-Mail address:** fdunexchem@halliburton.com

**Emergency Telephone Number** +64-6-7559274

**New Zealand National Poisons Centre** 0800 764 766 (24 hours)

#### 2. Hazard(s) Identification

**Statement of Hazardous Nature**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001; Not Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

**Classification**

9.1D Slightly harmful in the aquatic environment

**Hazard and Precautionary Statements**

**Hazard Pictograms**

**Signal Word** None

**Hazard Statements** H402 - Harmful to aquatic life

**Precautionary Statements**

**Prevention** P103 - Read label before use  
P104 - Read Safety Data Sheet before use.

**Response** None

**Storage** None

**Disposal** P501 - Dispose of contents/container to an approved landfill

**Contains**

Substances	CAS Number	Substance HSNO Classification
Contains no hazardous substances	Mixture	Not applicable

**2.3 Other Hazards**

Dust can form an explosive mixture in air

### 3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Contains no hazardous substances	Mixture	60 - 100%

### 4. First-Aid Measures

**Requirements for First Aid or Medical Care**

<b>Inhalation</b>	If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.
<b>Eyes</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
<b>Skin</b>	Wash with soap and water. Get medical attention if irritation persists.
<b>Ingestion</b>	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.

**Workplace Facilities Required**

None

**Relation to Health Effect****Most Important Symptoms/Effects**

May cause mild eye, skin, and respiratory irritation.

**Medical Attention and Special Treatment****Notes to Physician**

Treat symptomatically

### 5. Fire-Fighting Measures

**Type of Hazard****Flammability Hazard**

Non-flammable

**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.

**HAZCHEM Code**

Hazchem Code: None Allocated

**Special Protective Equipment and Precautions for Fire Fighters****Special Protective Equipment for Fire-Fighters**

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

**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.

### 6. Spillage, Accidental Release Measures

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

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 12 for additional information

### 6.2 Environmental precautions

None known.

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

Scoop up and remove.

### 6.4 Reference to other sections

See Section 12 for additional information.

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

#### Handling Precautions

Avoid creating or inhaling dust. Slippery when wet.

#### Handling Practices

##### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

##### Approved Handlers

This product does NOT require an approved handler.

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

Store away from oxidizers. Store in a cool, dry location.

#### Store Site Requirements

No special controls required

#### Packaging

No special packaging required

## 8. Exposure Controls and Personal Protection

### Workplace Exposure Standards

#### Exposure Limits

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Contains no hazardous substances	Mixture	Not applicable	Not applicable

#### 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

Normal work gloves.

#### Skin Protection

Normal work coveralls.

#### Eye Protection

Wear safety glasses or goggles to protect against exposure.

#### Other Precautions

None known.

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Physical State:** Solid

**Color:** Red brown

**Odor:** Musty

**Odor Threshold:** No information available

Property

Values

Remarks/ - Method

<b>pH:</b>	7-8
<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>	1.17
<b>Water Solubility</b>	Soluble in water
<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>Molecular Weight</b>	>700
<b>VOC Content (%)</b>	No data available

## 10. Stability and Reactivity

**10.2 Chemical Stability**

Stable

**10.4 Conditions to Avoid**

None anticipated

**10.5 Incompatible Materials**

Strong oxidizers.

**10.6 Hazardous Decomposition Products**

Oxides of sulfur. Carbon monoxide and carbon dioxide.

**Hazardous Reactions****Hazardous Polymerization:** Will Not Occur

## 11. Toxicological Information

**Health Effect from Likely Routes of Exposure****Acute Toxicity**

<b>Inhalation</b>	May cause mild respiratory irritation.
<b>Eye Contact</b>	May cause mild eye irritation.
<b>Skin Contact</b>	Prolonged or repeated contact may cause slight skin irritation.
<b>Ingestion</b>	None known

**Chronic Effects/Carcinogenicity**

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

**Toxicity Data****Toxicology data for the components**

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

## 12. Ecological Information

### 12.1 Toxicity

#### Ecotoxicity Effects

#### Product Ecotoxicity Data

No data available

#### Acute Algae Toxicity:

EC50: >3300 mg/L (Skeletonema costatum)

#### Acute Crustaceans Toxicity:

LC50: 1687 mg/L (Acartia tonsa)

#### Substance Ecotoxicity Data

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

### 12.2 Persistence and degradability

Not readily biodegradable

### 12.3 Bioaccumulative potential

Does not bioaccumulate

### 12.4 Mobility in soil

No information available

### Ecotoxicity Hazard Statements

None known

### 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

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

### IMDG/IMO

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

### NZ 5433.1999

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

---

<b>New Zealand Inventory of Chemicals</b>	All components listed on inventory or are exempt.
<b>HSNO Approval Number</b>	HSR002503
<b>Group Name</b>	Additives, Process Chemicals and Raw Materials (Subsidiary hazard HSR002503)
<b>HSNO Controls</b>	Refer to the NZ EPA website for more information: <a href="http://www.epa.govt.nz">http://www.epa.govt.nz</a>
<b>Approved Handlers</b>	Not Applicable
<b>Poisons Schedule:</b>	None Allocated

<b>16. Other information, including date of preparation or last revision</b>
--

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

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 literature references and sources for data**[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)  
NZ CCID**Revision Date:**

26-Sep-2013

**Revision Note**

Not applicable

**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**