

## SAFETY DATA SHEET

### PRODUCT R4

Revision Date: 04-Jan-2011

Revision Number: 3

#### 1. Product and Company Identification

##### Product Name

Product Trade Name: PRODUCT R4

##### Other Names

Synonyms: None  
Product Code: HM005595

##### Recommended Use

Recommended Use: Viscosifier  
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

Not 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

HSNO Classification: Not Determined

##### Hazard and Precautionary Statements

##### Hazard Pictograms

Signal Word: None

Hazard Statements: Not Hazardous

## 2. Hazard(s) Identification

### Precautionary Statements

**Prevention** None

**Response** None

**Storage** None

**Disposal** None

**Contains**

### Other Hazards

None known

## 3. Composition and Information on Ingredients

## 4. First-Aid Measures

### Requirements for First Aid or Medical Care

**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** Under normal conditions, first aid procedures are not required.

### Workplace Facilities Required

None

### Relation to Health Effect

#### **Most Important Symptoms/Effects**

No information available

### Medical Attention and Special Treatment

#### **Notes to Physician**

Treat symptomatically

## 5. Fire-Fighting Measures

### Type of Hazard

#### **Flammability Hazard**

None known

### 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. Fire-Fighting Measures

### 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

### Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust. Slippery when wet. See Section 12 for additional information

### Environmental precautions

None known.

### Methods and material for containment and cleaning up

Remove ignition sources and work with non-sparking tools. Scoop up and remove.

### Reference to other sections

See Section 12 for additional information.

## 7. Handling and Storage

### Precautions for Safe Handling

#### Handling Precautions

Slippery when wet. Avoid creating or inhaling dust.

#### Handling Practices

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

#### Approved Handlers

This product does NOT require an approved handler.

### Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a cool, dry location. Store away from direct sunlight. Product has a shelf life of 12 months.

### Store Site Requirements

No special controls required

### Packaging

No special packaging required

## 8. Exposure Controls and Personal Protection

### Workplace Exposure Standards

### Engineering Controls

## 8. Exposure Controls and Personal Protection

**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** Eyewash fountains and safety showers must be easily accessible.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Physical State:** Powder **Color:** White to off white

**Odor:** Odorless **Odor Threshold:** No information available

<u>Property</u> <u>Remarks/ Method</u>	<u>Values</u>
<b>pH:</b>	6.5-7.5 (10%)
<b>Melting Point/Range</b>	No data available
<b>Freezing Point/Range (C):</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

**Other information**

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

## 10. Stability and Reactivity

**Chemical Stability**

Stable

**Conditions to Avoid**

None anticipated

**Incompatible Materials**

Strong oxidizers.

**Hazardous Decomposition Products**

Carbon monoxide and carbon dioxide.

**Hazardous Reactions**

**10. Stability and Reactivity**

**Hazardous Polymerization:** Will Not Occur

**11. Toxicological Information**

**Health Effect from Likely Routes of Exposure**

**Acute Toxicity**

**Product Information** Under certain conditions of use, some of the product ingredients may cause the following:

<b>Inhalation</b>	May impede respiration.
<b>Eye Contact</b>	May cause mild eye irritation.
<b>Skin Contact</b>	None known.
<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**

**12. Ecological Information**

**Toxicity**  
**Ecotoxicity Effects**

**Product Ecotoxicity Data**  
No data available

**Substance Ecotoxicity Data**

**Persistence and degradability**  
No information available

**Bioaccumulative potential**  
No information available

**Mobility in soil**  
No information available

**Ecotoxicity Hazard Statements**  
None known

**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** Bury in a licensed landfill according to 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  
Transport Hazard Not applicable  
Class(es):

### NZ 5433.1999

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

### IATA/ICAO

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

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

**New Zealand Inventory of Chemicals** All components listed on inventory or are exempt.

**Group Name** Not Applicable

**HSNO Controls** Refer to the NZ EPA website for more information: <http://www.epa.govt.nz>

**Approved Handlers** Not Applicable

**Poisons Schedule:** None Allocated

## 16. Other Information

**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/)

**Revision Date:** 04-Jan-2011  
**Revision Note** Not applicable

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**End of Safety Data Sheet**