

## SAFETY DATA SHEET

### STEELSEAL®

Revision Date: 18-Apr-2014

Revision Number: 13

#### 1. Product and Company Identification

##### Product Name

Product Trade Name: STEELSEAL®

##### Other Names

Synonyms: None

Product Code: HM003768

##### Recommended Use

Recommended Use Loss Circulation Material

Uses Advised Against No information available

##### Company Name, Address and Contact Details

Manufacturer/Supplier Halliburton New Zealand  
1 Paraiti 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

Non-hazardous

##### Hazard and Precautionary Statements

##### Hazard Pictograms

Signal Word None

Hazard Statements Not Hazardous

##### Precautionary Statements

Prevention None

Response None

Storage None

Disposal None

Contains

Substances	CAS Number	Substance HSNO Classification
Calcined petroleum coke	64743-05-1	Not applicable

**2.3 Other Hazards**

None known

### 3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Calcined petroleum coke	64743-05-1	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**

Flammable dust when in finely divided and highly suspended state.

**5.1 Extinguishing media****Suitable Extinguishing Media**

All standard fire fighting media

**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**

Not applicable.

**Special Exposure Hazards**

Not applicable.

### 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 8 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 8 and 13 for additional information.

## **7. Handling and Storage**

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

#### **Handling Precautions**

Avoid creating or inhaling dust. Avoid dust accumulations. Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Before entering such an area, sampling and dark procedures for low oxygen levels should be taken to ensure ample oxygen availability.

#### **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 dry location. Keep from heat, sparks, and open flames. Product has a shelf life of 60 months.

#### **Store Site Requirements**

No special controls required

#### **Packaging**

No special packaging required

## **8. Exposure Controls and Personal Protection**

### **Workplace Exposure Standards**

#### **Exposure Limits**

<b>Substances</b>	<b>CAS Number</b>	<b>New Zealand WES</b>	<b>ACGIH TLV-TWA</b>
Calcined petroleum coke	64743-05-1	Not applicable	Not applicable

#### **Engineering Controls**

##### **Engineering Controls**

A well ventilated area to control dust levels.

#### **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:** Dark gray

**Odor:** Odorless

**Odor Threshold:** No information available

Property

Values

Remarks/ - Method

**pH:**

No data available

Freezing Point/Range	No data available
Melting Point/Range	No data available
Boiling Point/Range	4200 °C
Flash Point	No data available
Evaporation rate	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1.75
Water Solubility	Insoluble in water
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No information available
Oxidizing Properties	No information available

**9.2 Other information**

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

## 10. Stability and Reactivity

**10.2 Chemical Stability**

Stable

**10.4 Conditions to Avoid**

None anticipated

**10.5 Incompatible Materials**

Strong acids. Strong alkalis.

**10.6 Hazardous Decomposition Products**

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 eye irritation
<b>Skin Contact</b>	May cause mild skin irritation.
<b>Ingestion</b>	May cause mild gastric distress.

**Chronic Effects/Carcinogenicity**

Prolonged, excessive exposure to dust may cause pneumoconiosis, a lung disease caused by inhaling dust particles less than 0.5 micrometers into the lungs.

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

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcined petroleum coke	64743-05-1	No data available	No data available	No data available

## 12. Ecological Information

**12.1 Toxicity**

**Ecotoxicity Effects**

**Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data**

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Calcined petroleum coke	64743-05-1	ErL50(96h): > 1000 mg/L (Selenastrum capricornutum) NOELR(96h): > 1000 mg/L (Selenastrum capricornutum)	LL50(96h): > 1000 mg/L (Pimephales promelas)	No information available	EL50(48h): > 1000 mg/L (Daphnia magna)

**12.2 Persistence and degradability**

Substances	Persistence and Degradability
Calcined petroleum coke	The methods for determining biodegradability are not applicable to inorganic substances.

**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.  
**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  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

**NZ 5433.1999**

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

**IATA/ICAO**

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

**Special Precautions for User** None

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**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>	Non-hazardous
<b>Group Name</b>	Not Applicable
<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

**16. Other information, including date of preparation or last revision**

**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:** 18-Apr-2014  
**Revision Note**  
Not applicable

**Disclaimer Statement**

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**End of Safety Data Sheet**