# **HALLIBURTON**

# SAFETY DATA SHEET MICATEX® COARSE

Revision Date: 26-Jun-2015 Revision Number: 17

# 1. Product and Company Identification

**Product Name** 

Product Trade Name: MICATEX® COARSE

Other Names

Synonyms: None Product Code: HM003692

**Recommended Use** 

Recommended Use Fluid Loss Additive

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

6.7A Known or presumed human carcinogens6.9B Harmful to human target organs or systems

#### **Hazard and Precautionary Statements**

## **Hazard Pictograms**



Signal Word Danger

**Hazard Statements** H350 - May cause cancer by inhalation

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

**Precautionary Statements** 

**Prevention** P103 - Read label before use

P104 - Read Safety Data Sheet before use P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray P281 - Use personal protective equipment as required

Response P308 + P313 - IF exposed or concerned: Get medical advice/attention

P314 - Get medical attention/advice if you feel unwell

Storage P405 - Store locked up

**Disposal** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

#### **Contains**

Substances	CAS Number	Substance HSNO Classification
Crystalline silica, quartz	14808-60-7	6.7A
		6.9A

#### 2.3. Other Hazards

None known

# 3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Crystalline silica, quartz	14808-60-7	1 - 5%

## 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** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

## **Workplace Facilities Required**

None

## Relation to Health Effect

## **Most Important Symptoms/Effects**

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

## **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**

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** 

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

**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

Prevent from entering sewers, waterways, or low areas.

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

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

#### 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**

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

## **Handling Practices**

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## **Approved Handlers**

If more than 10 kg (Class 6) is present, then an approved handler must be present when the substance is being handled and when not in use, the substance must be locked away.

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

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

#### **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
Crystalline silica, quartz	14808-60-7	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>

#### **Engineering Controls**

**Engineering Controls** Use approved industrial ventilation and local exhaust as required to maintain exposures

below applicable exposure limits.

**Personal Protective Equipment (PPE)** 

Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), AS/NZS 1715, or **Respiratory Protection** 

equivalent respirator when using this product.

**Hand Protection** Normal work gloves.

**Skin Protection** Wear clothing appropriate for the work environment. Dusty clothing should be laundered

before reuse. Use precautionary measures to avoid creating dust when removing or

laundering clothing.

**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: Powder Color: Brown to Gray

Odor: Odorless Odor Threshold: No information available

Property Values

Remarks/ - Method

pH: 7-9

No data available Freezing Point/Range **Melting Point/Range** No data available **Boiling Point/Range** No data available **Flash Point** No data available No data available **Evaporation rate Vapor Pressure** No data available No data available **Vapor Density** 

**Specific Gravity** 2.9

**Water Solubility** Insoluble in water No data available Solubility in other solvents Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available No data available **Decomposition Temperature 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

Hydrofluoric acid.

#### 10.6. Hazardous Decomposition Products

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

**Hazardous Reactions** 

**Hazardous Polymerization:** Will Not Occur

## 11. Toxicological Information

# Health Effect from Likely Routes of Exposure

**Acute Toxicity** 

#### Inhalation

Prolonged breathing of mica dust may produce pneumoconiosis. Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below).

Eye Contact Skin Contact Ingestion May cause mechanical irritation to eye. May cause mechanical skin irritation.

None known.

## **Chronic Effects/Carcinogenicity**

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

#### **Toxicity Data**

#### Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Crystalline silica, quartz	14808-60-7	>15,000 mg/kg (Human)	No data available	No data available
Substances	CAS Number	Skin corrosion/irritation		
Crystalline silica, quartz	14808-60-7	Non-irritating to the skin	Non-irritating to the skin	
Substances	CAS Number	Eye damage/irritation		
Crystalline silica, quartz	14808-60-7	Mechanical irritation of the eyes is possible.		
Substances	CAS Number	Skin Sensitization		
Crystalline silica, quartz	14808-60-7	No information available.		
Substances	CAS Number	Respiratory Sensitization		
Crystalline silica, quartz	14808-60-7	No information available		
Substances	CAS Number	Mutagenic Effects		

Crystalline silica, quartz	14808-60-7	Not regarded as mutagenic.
Crystalline silica, quartz	114000-00-7	procregatued as mulayemic.
Substances	CAS Number	Carcinogenic Effects
Crystalline silica, quartz	14808-60-7	Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of crystalline silica with repeated respiratory exposure. Based on available scientific evidence, this substance is a threshold carcinogen with a mode of action involving indirect genotoxicity secondary to lung injury.
Substances	CAS Number	Reproductive toxicity
Crystalline silica, quartz	14808-60-7	No information available
Substances	CAS Number	STOT - single exposure
Crystalline silica, quartz	14808-60-7	No significant toxicity observed in animal studies at concentration requiring classification.
Substances	CAS Number	STOT - repeated exposure
Crystalline silica, quartz	14808-60-7	Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)
Substances	CAS Number	Aspiration hazard

# 12. Ecological Information

## 12.1. Toxicity

**Ecotoxicity Effects** 

Crystalline silica, quartz

## **Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data** 

Oubstance Ecotoxic	ity Data				
Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to
				Microorganisms	Invertebrates
Crystalline silica,	14808-60-7	No information available	LL0 (96h) 10,000 mg/L	No information available	LL50 (24h) > 10,000
quartz			(Danio rerio) (similar		mg/L (Daphnia magna)
1			substance)		(similar substance)

## 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Crystalline silica, quartz	14808-60-7	No information available

# 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Crystalline silica, quartz	14808-60-7	No data available

# 12.4. Mobility in soil

Substances	CAS Number	Mobility
Crystalline silica, quartz	14808-60-7	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

14808-60-7 Not applicable

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13. Disposal Considerations	
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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

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.

HSNO Approval Number HSR002512

**Group Name** Additives, Process Chemicals and Raw Materials (Toxic 6.7 HSR002512)

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

Approved Handlers If more than 10 kg (Class 6) is present, then an approved handler must be present when

the substance is being handled and when not in use, the substance must be locked

away.

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 Stewardship at 1-580-251-4335.

Key literature references and sources for data

NZ CCID

**Revision Date:** 26-Jun-2015

**Revision Note** 

SDS sections updated:

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#### **Disclaimer Statement**

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**End of Safety Data Sheet**