# HALLIBURTON

# MATERIAL SAFETY DATA SHEET

Product Trade Name:	MICATEX® COARSE
Revision Date:	02-Jan-2013
1. IDENTIFICATION OF TH COMPANY/UNDERTAKI	E SUBSTANCE/PREPARATION AND OF THE NG
Statement of Hazardous Nature	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
	<b>Product Emergency Telephone</b> Australia: 08-64244950 Papua New Guinea: 05 1 281 575 5000 NewZealand: 06-7559274
	<b>Fire, Police &amp; Ambulance - Emergency Telephone</b> Australia: 000 Papua New Guinea: 000 New Zealand: 111
Identification of Substances or F	Preparation
Product Trade Name: Synonyms: Chemical Family: UN Number: Dangerous Goods Class: Subsidiary Risk: Hazchem Code: Poisons Schedule: Application:	MICATEX® COARSE None Mineral None None None None Allocated None Allocated Fluid Loss Additive
Prepared By	Chemical Compliance Telephone: 1-580-251-4335 e-mail: fdunexchem@halliburton.com
2. COMPOSITION/INFORM	IATION ON INGREDIENTS
Substances CAS	Number PERCENT Australia New Zealand ACGIH TI V-TWA

Substances	CAS Number	PERCENT	Australia NOHSC	New Zealand WES	ACGIH TLV-TWA
Mica	12001-26-2	60 - 100%	TWA: 2.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>
		MICATEX® ( Page 1			

2. COMPOSITION/IN Crystalline silica, quartz	14808-60-7	1 - 5%	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>
<u>[]</u> ]					[
	Non-Ha	azardous Subs	tance to Total of 100%	0	
3. HAZARDS IDENT	IFICATION				
Hazard Overview		<b>CAUTION!</b> - ACUTE HEALTH HAZARD May cause eye and respiratory irritation.			
	Breathir	ng crystalline silic Crystalline silica	C HEALTH HAZARD ca can cause lung disea a has also been associa	ase, including silic ated with sclerode	osis and lung rma and kidney
	airborne conditio recomm 149, or e	e without a visible ns. Use only wit lended exposure equivalent respir	uartz, cristobalite, and/c e cloud. Avoid breathin h adequate ventilation e limits. Wear a NIOSH ator when using this pr this product, which has	ng dust. Avoid cre to keep exposure: I certified, Europea roduct. Review the	ating dusty s below an Standard EN e Material Safety
Risk Phrases	None				
HSNO Classification	Not Dete	ermined			
4. FIRST AID MEAS	URES				
Inhalation			area to fresh air. Get n becomes difficult.	nedical attention if	respiratory irritation
Skin	Wash w	ith soap and wa	ter. Get medical attention	on if irritation pers	ists.
Eyes			ediately flush eyes with n if irritation persists.	plenty of water for	r at least 15 minutes
Ingestion	Under n	ormal conditions	s, first aid procedures a	re not required.	
Notes to Physician	Treat sy	mptomatically.			

Suitable Extinguishing Media All standard fire fighting media

Extinguishing media which must None known. not be used for safety reasons

Special Exposure Hazards Not applicable.

Special Protective Equipment for Not applicable. Fire-Fighters

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary None known. Measures

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.

# 7. HANDLING AND STORAGE

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.
Respiratory Protection	Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), or 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.

Powder

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** 

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Solvents (g/100ml): VOCs (g/l): Viscosity, Dynamic @ 20 C (centipoise): Viscosity, Kinematic @ 20 C (centistokes): Partition Coefficient/n-Octanol/Water: Molecular Weight (g/mole): Decomposition Temperature (C): Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined

# **10. STABILITY AND REACTIVITY**

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid	None anticipated
Incompatibility (Materials to Avoid)	Hydrofluoric acid.
Hazardous Decomposition Products	Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).
Additional Guidelines	Not Applicable

## 11. TOXICOLOGICAL INFORMATION

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

Sympotoms related to exposure 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).

- Skin Contact May cause mechanical skin irritation.
- **Eye Contact** May cause eye irritation.
- Ingestion None known
- Aggravated Medical Conditions Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to quartz dust.

Chronic Effects/Carcinogenicity	<ul> <li>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.</li> <li>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</li> </ul>
	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.
Other Information	For further information consult "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).
Toxicity Tests	
Oral Toxicity:	Not determined
Dermal Toxicity:	Not determined
Inhalation Toxicity:	Not determined
Primary Irritation Effect:	Not determined
Carcinogenicity	Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997).
Genotoxicity:	Not determined
Reproductive / Developmental Toxicity:	Not determined

# 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)	Not determined
Persistence/Degradability	Not applicable

Bio-accumulation Not determined

# **Ecotoxicological Information**

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity:EC50: > 10,000 mg/l (Daphnia magna)

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Acute Algae Toxicity:	Not determined
Chemical Fate Information	Not determined
Other Information	Not applicable

#### 13. DISPOSAL CONSIDERATIONS

**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

## 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 EINECS Inventory	All components listed on inventory or are exempt. All components listed on inventory or are exempt. All components listed on inventory or are exempt. This product, and all its components, complies with EINECS
Classification	Crystalline silica is not classified as a carcinogen in EU Council Directives 67/548/EEC and 88/379/EEC.
Risk Phrases	None
Safety Phrases	S22 Do not breathe dust. S38 In case of insufficient ventilation wear suitable respiratory equipment.

# **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	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 MSDS\*\*\*