## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: OPTIFLO-HTE

Revision Date: 20-Dec-2012

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

Statement of Hazardous Nature Non-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

**Product Emergency Telephone** 

Australia: 08-64244950

Papua New Guinea: 05 1 281 575 5000

NewZealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000 New Zealand: 111

#### **Identification of Substances or Preparation**

Product Trade Name: OPTIFLO-HTE

Synonyms: None **Chemical Family:** Blend **UN Number:** None **Dangerous Goods Class:** None **Subsidiary Risk:** None **Hazchem Code:** None **Poisons Schedule:** None Breaker Application:

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	Australia NOHSC	New Zealand OEL	ACGIH TLV-TWA
Walnut hulls	Mixture	60 - 100%	Not applicable	Not applicable	Not applicable
Crystalline silica, quartz	14808-60-7	10 - 30%	0.1 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>

#### HAZARDS IDENTIFICATION

**Hazard Overview** CAUTION! - ACUTE HEALTH HAZARD

May cause eye and respiratory irritation. May cause allergic respiratory reaction.

DANGER! - CHRONIC HEALTH HAZARD

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

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 exposures below recommended exposure limits. Wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Review the Material Safety Data Sheet (MSDS) for this product, which has been provided to your employer.

**Risk Phrases** None

**HSNO Classification** Not Determined

## **FIRST AID MEASURES**

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation

develops or if breathing becomes difficult.

Skin Wash with soap and water. Get medical attention if irritation persists.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes Eyes

and get medical attention if irritation persists.

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek Ingestion

medical attention. Never give anything by mouth to an unconscious person.

**Notes to Physician** Not Applicable

## FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must None known.

not be used for safety reasons

**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.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

#### ACCIDENTAL RELEASE MEASURES

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

**Environmental Precautionary** 

**Measures** 

None known.

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Procedure for Cleaning / Absorption

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** Avoid contact with eyes, skin, or clothing. 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 Store in a cool, dry location. Store between 20 F (-6 C) and 100 F (38 C). Use good

housekeeping in storage and work areas to prevent accumulation of dust. Close

container when not in use. Product has a shelf life of 24 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain

exposures below applicable exposure limits listed in Section 2.

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: Tan to Brown
Odor: Fermentive
pH: Not Determined

Specific Gravity @ 20 C (Water=1):

Density @ 20 C (kg/l): Not Determined Bulk Density @ 20 C (kg/m³): Not Determined **Boiling Point/Range (C):** Not Determined Not Determined Freezing Point/Range (C): Pour Point/Range (C): Not Determined Flash Point/Range (C): Not Determined Flash Point Method: Not Determined **Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (g/m³): Not Determined Flammability Limits in Air - Lower (%): Not Determined Flammability Limits in Air - Upper (g/m³): Not Determined Flammability Limits in Air - Upper (%): Not Determined Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles: Evaporation Rate (Butyl Acetate=1):** Not Determined

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide. 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.

**Inhalation** May cause allergic respiratory reaction. 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 None known.

**Eye Contact** May cause mechanical irritation to eye.

**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**

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.

#### 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 determined

Bio-accumulation Not determined

## **Ecotoxicological Information**

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined

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

#### 13. **DISPOSAL CONSIDERATIONS**

Bury in a licensed landfill according to federal, state, and local regulations. **Disposal Method** 

**Contaminated Packaging** Follow all applicable national or local regulations.

## TRANSPORT INFORMATION

## **Land Transportation**

**ADR** 

Not restricted

## **Air Transportation**

ICAO/IATA

Not restricted

## Sea Transportation

**IMDG** 

Not restricted

## **Other Transportation Information**

Labels: None

### REGULATORY INFORMATION

#### **Chemical Inventories**

**Australian AICS Inventory** 

**New Zealand Inventory of** 

Chemicals

**US TSCA Inventory EINECS Inventory** 

Product contains one or more components not listed on inventory.

This product does not comply with NZIOC

All components listed on inventory or are exempt. This product does not comply with EINECS

Classification Not Classified

**Risk Phrases** None

**Safety Phrases** None

#### 16. OTHER INFORMATION

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

Section 9. Physical and Chemical Properties

### 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\*\*\*