# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: BIO-BORE™

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/Baroid 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

New Zealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000 New Zealand: 111

**Identification of Substances or Preparation** 

Product Trade Name: BIO-BORE™

Synonyms: None

Chemical Family: Carbohydrate

UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code:None AllocatedPoisons Schedule:None AllocatedApplication:Fluid Loss Additive

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS Number PERCENT Australia New Zealand ACGIH TLV-TWA

NOHSC WES

#### COMPOSITION/INFORMATION ON INGREDIENTS Contains no hazardous Mixture 60 - 100% Not applicable Not applicable Not applicable substances

#### Non-Hazardous Substance to Total of 100%

### HAZARDS IDENTIFICATION

May cause eye irritation. Airborne dust may be explosive. **Hazard Overview** 

**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.

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

**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

Organic dust in the presence of an ignition source can be explosive in high **Special Exposure Hazards** 

concentrations. Good housekeeping practices are required to minimize this

potential. Decomposition in fire may produce toxic gases.

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.

Procedure for Cleaning /

**Absorption** 

Scoop up and remove.

### HANDLING AND STORAGE

**Handling Precautions** Slippery when wet. Avoid creating or inhaling dust.

**Storage Information** Store away from oxidizers. Store in a cool, dry location.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area.

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures, the

selection and proper use of personal protective equipment should be determined by

an industrial hygienist or other qualified professional based on the specific

application of this product.

**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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Color: Off white
Odor: Starch
pH: 4.5-7
Specific Gravity @ 20 C (Water=1): 1.5

Density @ 20 C (kg/l):

Bulk Density @ 20 C (kg/m³):

Not Determined

Boiling Point/Range (C):

Freezing Point/Range (C):

Pour Point/Range (C):

Flash Point/Range (C):

Not Determined

Autoignition Temperature (C): 380

Not Determined Flammability Limits in Air - Lower (g/m³): Not Determined Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (g/m<sup>3</sup>): Not Determined Flammability Limits in Air - Upper (%): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **Evaporation Rate (Butyl Acetate=1):** Not Determined

Solubility in Water (g/100ml): Soluble

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

1,000,000

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.

Additional Guidelines Not Applicable

### 11. TOXICOLOGICAL INFORMATION

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

Sympotoms related to exposure

**Inhalation** May impede respiration.

Skin Contact None known.

**Eye Contact** May cause mild eye irritation.

**Ingestion** None known

Aggravated Medical Conditions None known.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are

chronic health hazards.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: LD50: > 5000 mg/kg (Rat)

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

**Genotoxicity:** Not determined

Reproductive / Developmental Toxicity:

Not determined

### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability BOD(5 Day): 200 mg/g COD: 1600 mg/g

Bio-accumulation Not determined

# **Ecotoxicological Information**

Acute Fish Toxicity: Not determined

Acute Crustaceans Toxicity: TLM96: > 75000 ppm (Mysidopsis bahia)

Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

BIO-BORE™ Page 4 of 6 **Other Information** Not applicable

# **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

#### 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 Not Classified

**Risk Phrases** None

**Safety Phrases** None

# 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 guestions about the Safety Data Sheet for this or other Halliburton products,

contact Chemical Compliance at 1-580-251-4335.

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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\*\*\*