# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: BARACARB®-DF 600

Revision Date: 08-Apr-2013

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

**COMPANY/UNDERTAKING** 

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, 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: BARACARB®-DF 600

Synonyms: None
Chemical Family: Mineral
UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code:None AllocatedPoisons Schedule:None AllocatedApplication:Bridging Agent

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 WES	ACGIH TLV-TWA
Calcium carbonate	471-34-1	60 - 100%	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Crystalline silica, quartz	14808-60-7	0 - 1%	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>

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

#### HAZARDS IDENTIFICATION

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

May cause eye, skin, and respiratory irritation.

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** R49 May cause cancer by inhalation.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

**HSNO Classification** Not Determined

# **FIRST AID MEASURES**

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

develops or if breathing becomes difficult.

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

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** All standard fire fighting media

Extinguishing media which must None known.

not be used for safety reasons

Not applicable. **Special Exposure Hazards** 

Special Protective Equipment for Not applicable.

Fire-Fighters

#### **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.

# 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. Avoid

contact with eyes, skin, or clothing. Avoid creating or inhaling dust.

**Storage Information** Store away from acids. Store in a cool, dry location. Use good housekeeping in

storage and work areas to prevent accumulation of dust. Close container when not

in use. Do not reuse empty container. Product has a shelf life of 60 months.

# **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Use in a well ventilated area. Use approved industrial ventilation and local exhaust **Engineering Controls** 

as required to maintain exposures below applicable exposure limits.

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

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.

**Percent Volatiles:** 

**Evaporation Rate (Butyl Acetate=1):** 

#### PHYSICAL AND CHEMICAL PROPERTIES

Solid **Physical State:** White to tan Color: Odor: Odorless pH: 8-9 Specific Gravity @ 20 C (Water=1): 2.7

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):

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Not Determined

Not Determined

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water (g/100ml): Insoluble 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 acids.

**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.

Sympotoms related to exposure

Inhalation

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 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**

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: LD50: > 5000 mg/kg (Rat)

**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 /

Not determined

**Developmental Toxicity:** 

### 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: TLM96: >1,000,000 ppm (Mysidopsis bahia) SPP @ 178.5 ppb

BARACARB®-DF 600 Page 5 of 7 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 T - Toxic.

Crystalline silica is not classified as a carcinogen in EU Council Directives

67/548/EEC and 88/379/EEC.

**Risk Phrases** R49 May cause cancer by inhalation.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

Safety Phrases S22 Do not breathe dust.

# 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\*\*\*