### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: DEUTERIUM OXIDE

Revision Date: 02-Jan-2013

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: DEUTERIUM OXIDE

Synonyms: None

Chemical Family: Not applicable

UN Number:
Dangerous Goods Class:
None
Subsidiary Risk:
None
Hazchem Code:
Poisons Schedule:
Application:
None
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 NOHSC	New Zealand OEL	ACGIH TLV-TWA
Deuterium oxide	7789-20-0	60 - 100%	Not applicable	Not applicable	Not applicable

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

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** Potential reproductive hazard.

Risk Phrases None

HSNO Classification Not Determined

### 4. FIRST AID MEASURES

**Inhalation** Under normal conditions, first aid procedures are not required.

**Skin** Under normal conditions, first aid procedures are not required.

**Eyes** Under normal conditions, first aid procedures are not required.

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

Notes to Physician Not Applicable

### 5. FIRE FIGHTING MEASURES

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.

**Environmental Precautionary** 

**Measures** 

None known.

Procedure for Cleaning /

**Absorption** 

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Scoop up and remove.

### 7. HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing.

**Storage Information** Store away from water. Keep container closed when not in use.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** None known.

**Respiratory Protection** Not normally necessary.

Hand Protection None known.

DEUTERIUM OXIDE Page 2 of 6 **Skin Protection** Normal work coveralls.

Wear safety glasses or goggles to protect against exposure. **Eye Protection** 

**Other Precautions** None known.

### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

Color: Clear colorless Odor: Odorless :Ha Not Determined

Specific Gravity @ 20 C (Water=1): 1.1 Density @ 20 C (kg/l): 1.1

Bulk Density @ 20 C (kg/m³): Not Determined

**Boiling Point/Range (C):** 101 Freezing Point/Range (C): 3.8

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 Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **Evaporation Rate (Butvl Acetate=1):** Not Determined Solubility in Water (g/100ml): Soluble

Solubility in Solvents (q/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): 20.02

**Decomposition Temperature (C):** Not Determined

### STABILITY AND REACTIVITY

**Stability Data:** Stable

**Hazardous Polymerization:** Will Not Occur **Conditions to Avoid** None known.

Incompatibility (Materials to

Avoid)

Water.

**Hazardous Decomposition** 

**Products** 

None known.

**Additional Guidelines** Not Applicable

## **TOXICOLOGICAL INFORMATION**

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

Inhalation None known. Skin Contact None known.

Eye Contact None known.

**Ingestion** None known

Aggravated Medical Conditions None known.

Chronic Effects/Carcinogenicity May cause reproductive effects based on animal studies.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: Not determined

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

**Primary Irritation Effect:** Not determined

Carcinogenicity Not determined

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: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not applicable

### 13. DISPOSAL CONSIDERATIONS

**Disposal Method** Disposal should be made in accordance with 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.

This product does not comply with NZIOC

Product contains one or more components not listed on the inventory.

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

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.

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the user.

# \*\*\*END OF MSDS\*\*\*