

## MATERIAL SAFETY DATA SHEET

**Product Trade Name:** D-AIR 2

**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:** D-AIR 2  
**Synonyms:** None  
**Chemical Family:** Polyethylene glycol  
**UN Number:** None  
**Dangerous Goods Class:** None  
**Subsidiary Risk:** None  
**Hazchem Code:** None Allocated  
**Poisons Schedule:** None Allocated  
**Application:** Antifoam 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<br>NOHSC | New Zealand<br>WES | ACGIH TLV-TWA  |
|----------------------|------------|-----------|--------------------|--------------------|----------------|
| Polypropylene glycol | 25322-69-4 | 60 - 100% | Not applicable     | Not applicable     | Not applicable |

## Non-Hazardous Substance to Total of 100%

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye and skin irritation.

**Risk Phrases** None

**HSNO Classification** Not Determined

### 4. 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.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

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

**Notes to Physician** Not Applicable

### 5. FIRE FIGHTING MEASURES

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

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

**Special Exposure Hazards** Decomposition in fire may produce toxic gases.

**Special Protective Equipment for Fire-Fighters** Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

### 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. Avoid breathing vapors.

**Storage Information** Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

|                               |                                                             |
|-------------------------------|-------------------------------------------------------------|
| <b>Respiratory Protection</b> | Organic vapor respirator.                                   |
| <b>Hand Protection</b>        | Impervious rubber gloves.                                   |
| <b>Skin Protection</b>        | Normal work coveralls.                                      |
| <b>Eye Protection</b>         | Wear safety glasses or goggles to protect against exposure. |
| <b>Other Precautions</b>      | None known.                                                 |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                              |                 |
|--------------------------------------------------------------|-----------------|
| <b>Physical State:</b>                                       | Liquid          |
| <b>Color:</b>                                                | Clear colorless |
| <b>Odor:</b>                                                 | Bland           |
| <b>pH:</b>                                                   | Not Determined  |
| <b>Specific Gravity @ 20 C (Water=1):</b>                    | 1.01            |
| <b>Density @ 20 C (kg/l):</b>                                | 1.01            |
| <b>Bulk Density @ 20 C (kg/m<sup>3</sup>):</b>               | Not Determined  |
| <b>Boiling Point/Range (C):</b>                              | Not Determined  |
| <b>Freezing Point/Range (C):</b>                             | -37             |
| <b>Pour Point/Range (C):</b>                                 | Not Determined  |
| <b>Flash Point/Range (C):</b>                                | Not Determined  |
| <b>Flash Point Method:</b>                                   | PMCC            |
| <b>Autoignition Temperature (C):</b>                         | 371             |
| <b>Flammability Limits in Air - Lower (g/m<sup>3</sup>):</b> | Not Determined  |
| <b>Flammability Limits in Air - Lower (%):</b>               | 2.6             |
| <b>Flammability Limits in Air - Upper (g/m<sup>3</sup>):</b> | Not Determined  |
| <b>Flammability Limits in Air - Upper (%):</b>               | 12.5            |
| <b>Vapor Pressure @ 20 C (mmHg):</b>                         | < 0.1           |
| <b>Vapor Density (Air=1):</b>                                | > 1             |
| <b>Percent Volatiles:</b>                                    | < 1             |
| <b>Evaporation Rate (Butyl Acetate=1):</b>                   | Not Determined  |
| <b>Solubility in Water (g/100ml):</b>                        | Insoluble       |
| <b>Solubility in Solvents (g/100ml):</b>                     | Not Determined  |
| <b>VOCs (g/l):</b>                                           | Not Determined  |
| <b>Viscosity, Dynamic @ 20 C (centipoise):</b>               | Not Determined  |
| <b>Viscosity, Kinematic @ 20 C (centistokes):</b>            | Not Determined  |
| <b>Partition Coefficient/n-Octanol/Water:</b>                | Not Determined  |
| <b>Molecular Weight (g/mole):</b>                            | > 600           |
| <b>Decomposition Temperature (C):</b>                        | Not Determined  |

## 10. STABILITY AND REACTIVITY

|                                             |                                     |
|---------------------------------------------|-------------------------------------|
| <b>Stability Data:</b>                      | Stable                              |
| <b>Hazardous Polymerization:</b>            | Will Not Occur                      |
| <b>Conditions to Avoid</b>                  | None anticipated                    |
| <b>Incompatibility (Materials to Avoid)</b> | Strong oxidizers.                   |
| <b>Hazardous Decomposition Products</b>     | Carbon monoxide and carbon dioxide. |
| <b>Additional Guidelines</b>                | Not Applicable                      |

## 11. TOXICOLOGICAL INFORMATION

|                                               |                                                                                                            |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Principle Route of Exposure</b>            | Eye or skin contact, inhalation.                                                                           |
| <b>Symptoms related to exposure</b>           |                                                                                                            |
| <b>Inhalation</b>                             | None known.                                                                                                |
| <b>Skin Contact</b>                           | May cause mild skin irritation.                                                                            |
| <b>Eye Contact</b>                            | May cause mild eye irritation.                                                                             |
| <b>Ingestion</b>                              | None known                                                                                                 |
| <b>Aggravated Medical Conditions</b>          | None known.                                                                                                |
| <b>Chronic Effects/Carcinogenicity</b>        | No data available to indicate product or components present at greater than 1% are chronic health hazards. |
| <b>Other Information</b>                      | None known.                                                                                                |
| <b>Toxicity Tests</b>                         |                                                                                                            |
| <b>Oral Toxicity:</b>                         | LD50: 419 mg/kg (Rat)                                                                                      |
| <b>Dermal Toxicity:</b>                       | Not determined                                                                                             |
| <b>Inhalation Toxicity:</b>                   | Not determined                                                                                             |
| <b>Primary Irritation Effect:</b>             | Not determined                                                                                             |
| <b>Carcinogenicity</b>                        | Not determined                                                                                             |
| <b>Genotoxicity:</b>                          | Not determined                                                                                             |
| <b>Reproductive / Developmental Toxicity:</b> | Not determined                                                                                             |

## 12. ECOLOGICAL INFORMATION

|                                  |                |
|----------------------------------|----------------|
| <b>Mobility (Water/Soil/Air)</b> | Not determined |
| <b>Persistence/Degradability</b> | Resistant      |
| <b>Bio-accumulation</b>          | Not determined |

### Ecotoxicological Information

|                                    |                |
|------------------------------------|----------------|
| <b>Acute Fish Toxicity:</b>        | Not determined |
| <b>Acute Crustaceans Toxicity:</b> | Not determined |
| <b>Acute Algae Toxicity:</b>       | Not determined |
| <b>Chemical Fate Information</b>   | Not determined |
| <b>Other Information</b>           | Not applicable |

## 13. DISPOSAL CONSIDERATIONS

|                               |                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------|
| <b>Disposal Method</b>        | Disposal should be made in accordance with federal, state, and local regulations. |
| <b>Contaminated Packaging</b> | 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**

All components listed on inventory or are exempt.

**New Zealand Inventory of Chemicals**

All components listed on inventory or are exempt.

**US TSCA Inventory**

All components listed on inventory or are exempt.

**EINECS Inventory**

This product, and all its components, complies 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 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**

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