

## MATERIAL SAFETY DATA SHEET

**Product Trade Name:**           **QUIK MUD**

**Revision Date:**                   03-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 Australia Pty. Ltd.  
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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:**           QUIK MUD  
**Synonyms:**                       None  
**Chemical Family:**           Anionic Polymer  
**UN Number:**                   None  
**Dangerous Goods Class:**   None  
**Subsidiary Risk:**           None  
**Hazchem Code:**           None Allocated  
**Poisons Schedule:**       None Allocated  
**Application:**               Shale Inhibitor Viscosifier

**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  |
|-----------------------------------------|------------|----------|--------------------|--------------------|----------------|
| Hydrotreated light petroleum distillate | 64742-47-8 | 10 - 30% | Not applicable     | Not applicable     | Not applicable |

## Non-Hazardous Substance to Total of 100%

### 3. HAZARDS IDENTIFICATION

|                            |                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard Overview</b>     | May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. |
| <b>Risk Phrases</b>        | None                                                                                                                                                   |
| <b>HSNO Classification</b> | 9.1C Harmful in the aquatic environment                                                                                                                |

### 4. FIRST AID MEASURES

|                           |                                                                                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>         | If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. |
| <b>Skin</b>               | Wash with soap and water. Get medical attention if irritation persists. Remove contaminated shoes and discard.                                                          |
| <b>Eyes</b>               | Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.                                                            |
| <b>Ingestion</b>          | Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.                                                                             |
| <b>Notes to Physician</b> | Not Applicable                                                                                                                                                          |

### 5. FIRE FIGHTING MEASURES

|                                                                      |                                                                                                                |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                                  | Water fog, carbon dioxide, foam, dry chemical.                                                                 |
| <b>Extinguishing media which must not be used for safety reasons</b> | None known.                                                                                                    |
| <b>Special Exposure Hazards</b>                                      | Decomposition in fire may produce toxic gases. Use water spray to cool fire exposed surfaces.                  |
| <b>Special Protective Equipment for Fire-Fighters</b>                | Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel. |

### 6. ACCIDENTAL RELEASE MEASURES

|                                             |                                                                                                                |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautionary Measures</b>      | Use appropriate protective equipment.                                                                          |
| <b>Environmental Precautionary Measures</b> | Prevent from entering sewers, waterways, or low areas.                                                         |
| <b>Procedure for Cleaning / Absorption</b>  | Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove. |

### 7. HANDLING AND STORAGE

|                             |                                                                                                                                                                       |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling Precautions</b> | Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse. Material is slippery underfoot. |
| <b>Storage Information</b>  | Store away from oxidizers. Keep container closed when not in use. Product has a shelf life of 12 months.                                                              |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                               |                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engineering Controls</b>   | Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.                                                            |
| <b>Respiratory Protection</b> | Not normally needed. But if significant exposures are possible then the following respirator is recommended:<br>Organic vapor respirator with a dust/mist filter. (A2P2/P3) |
| <b>Hand Protection</b>        | Impervious rubber gloves. Polyvinylchloride gloves. Nitrile gloves.                                                                                                         |
| <b>Skin Protection</b>        | Rubber apron.                                                                                                                                                               |
| <b>Eye Protection</b>         | Chemical goggles; also wear a face shield if splashing hazard exists.                                                                                                       |
| <b>Other Precautions</b>      | Eyewash fountains and safety showers must be easily accessible.                                                                                                             |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                              |                    |
|--------------------------------------------------------------|--------------------|
| <b>Physical State:</b>                                       | Liquid             |
| <b>Color:</b>                                                | White to off white |
| <b>Odor:</b>                                                 | Mild hydrocarbon   |
| <b>pH:</b>                                                   | 5                  |
| <b>Specific Gravity @ 20 C (Water=1):</b>                    | 1.1                |
| <b>Density @ 20 C (kg/l):</b>                                | 1.08               |
| <b>Bulk Density @ 20 C (kg/m<sup>3</sup>):</b>               | Not Determined     |
| <b>Boiling Point/Range (C):</b>                              | 105                |
| <b>Freezing Point/Range (C):</b>                             | Not Determined     |
| <b>Pour Point/Range (C):</b>                                 | -20                |
| <b>Flash Point/Range (C):</b>                                | > 93               |
| <b>Flash Point Method:</b>                                   | PMCC               |
| <b>Autoignition Temperature (C):</b>                         | Not Determined     |
| <b>Flammability Limits in Air - Lower (g/m<sup>3</sup>):</b> | Not Determined     |
| <b>Flammability Limits in Air - Lower (%):</b>               | Not Determined     |
| <b>Flammability Limits in Air - Upper (g/m<sup>3</sup>):</b> | Not Determined     |
| <b>Flammability Limits in Air - Upper (%):</b>               | Not Determined     |
| <b>Vapor Pressure @ 20 C (mmHg):</b>                         | Not Determined     |
| <b>Vapor Density (Air=1):</b>                                | Not Determined     |
| <b>Percent Volatiles:</b>                                    | Not Determined     |
| <b>Evaporation Rate (Butyl Acetate=1):</b>                   | < 1                |
| <b>Solubility in Water (g/100ml):</b>                        | Disperses          |
| <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>                            | Not Determined     |
| <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>                  | Keep away from heat, sparks and flame.                                              |
| <b>Incompatibility (Materials to Avoid)</b> | Strong oxidizers. Contact with copper. Prolonged contact with aluminum. Mild steel. |

|                                         |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| <b>Hazardous Decomposition Products</b> | Ammonia. Oxides of nitrogen. 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><u>Symptoms related to exposure</u></b>    |                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Inhalation</b>                             | May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.                                                                                                                                                                                 |
| <b>Skin Contact</b>                           | Prolonged or repeated contact may cause skin irritation.                                                                                                                                                                                                                                                                                                                                      |
| <b>Eye Contact</b>                            | May cause eye irritation.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Ingestion</b>                              | Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and convulsions. |
| <b>Aggravated Medical Conditions</b>          | Lung disorders.                                                                                                                                                                                                                                                                                                                                                                               |
| <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: > 2000 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> | Not determined |
| <b>Bio-accumulation</b>          | Not determined |

### Ecotoxicological Information

|                             |                                       |
|-----------------------------|---------------------------------------|
| <b>Acute Fish Toxicity:</b> | TLM96: 1000 ppm (Oncorhynchus mykiss) |
|-----------------------------|---------------------------------------|

**Acute Crustaceans Toxicity:**TLM96: 250 mg/l (Crangon crangon)

**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

|                                           |                                                            |
|-------------------------------------------|------------------------------------------------------------|
| <b>Australian AICS Inventory</b>          | All components listed on inventory or are exempt.          |
| <b>New Zealand Inventory of Chemicals</b> | All components listed on inventory or are exempt.          |
| <b>US TSCA Inventory</b>                  | All components listed on inventory or are exempt.          |
| <b>EINECS Inventory</b>                   | This product, and all its components, complies with EINECS |

**Classification** Not Classified

**Risk Phrases** None

**Safety Phrases** S2 Keep out of reach of children.  
S24/25 Avoid contact with skin and eyes.

### 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\*\*\***