

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** QUICK SET CEMENT

**Revision Date:** 03-Jan-2012

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Statement of Hazardous Nature** 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  
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:** QUICK SET CEMENT  
**Synonyms:** None  
**Chemical Family:** Cement  
**UN Number:** None  
**Dangerous Goods Class:** None  
**Subsidiary Risk:** None  
**Hazchem Code:** None Allocated  
**Poisons Schedule:** None Allocated  
**Application:** Cement

**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             |
|-----------------|-------------|-----------|---------------------------|---------------------------|---------------------------|
| Calcium sulfate | Proprietary | 60 - 100% | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> | TWA: 10 mg/m <sup>3</sup> |
| Sodium chloride | 7647-14-5   | 1 - 5%    | Not applicable            | Not applicable            | Not applicable            |

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

|                            |            |          |                            |                            |                              |
|----------------------------|------------|----------|----------------------------|----------------------------|------------------------------|
| Portland cement            | 65997-15-1 | 30 - 60% | TWA: 10 mg/m <sup>3</sup>  | TWA: 10 mg/m <sup>3</sup>  | TWA: 1 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%

## 3. HAZARDS IDENTIFICATION

### Hazard Overview

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.

#### **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.

### Risk Phrases

R43 May cause sensitization by skin contact.  
R36/38 Irritating to eyes and skin.

### 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, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

### Ingestion

Under normal conditions, first aid procedures are not required.

### Notes to Physician

Not Applicable

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

None - does not burn.

### Extinguishing media which must not be used for safety reasons

None known.

### Special Exposure Hazards

Not applicable.

### Special Protective Equipment for Fire-Fighters

Not applicable.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary Measures** None known.

**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.

## 7. HANDLING AND STORAGE

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

**Storage Information** 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. Product has a shelf life of 24 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

**Respiratory Protection** Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), or equivalent 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** Eyewash fountains and safety showers must be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                              |                |
|--------------------------------------------------------------|----------------|
| <b>Physical State:</b>                                       | Solid          |
| <b>Color:</b>                                                | Gray           |
| <b>Odor:</b>                                                 | Odorless       |
| <b>pH:</b>                                                   | 12.4           |
| <b>Specific Gravity @ 20 C (Water=1):</b>                    | Not Determined |
| <b>Density @ 20 C (kg/l):</b>                                | Not Determined |
| <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>                             | Not Determined |
| <b>Pour Point/Range (C):</b>                                 | Not Determined |
| <b>Flash Point/Range (C):</b>                                | Not Determined |
| <b>Flash Point Method:</b>                                   | Not Determined |
| <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 |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                         |                |
|---------------------------------------------------------|----------------|
| 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):                          | Not Determined |
| 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) | Hydrofluoric acid.                                                                                     |
| Hazardous Decomposition Products     | 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. |
|-----------------------------|----------------------------------|

### Symptoms 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).

|                     |                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------|
| <b>Skin Contact</b> | Can dry skin. May cause an allergic skin reaction. May cause alkali burns with confined contact. |
|---------------------|--------------------------------------------------------------------------------------------------|

|                    |                                  |
|--------------------|----------------------------------|
| <b>Eye Contact</b> | May cause severe eye irritation. |
|--------------------|----------------------------------|

|                  |            |
|------------------|------------|
| <b>Ingestion</b> | None known |
|------------------|------------|

|                                      |                                                                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Aggravated Medical Conditions</b> | 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

|                                               |                                                                                           |
|-----------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>Oral Toxicity:</b>                         | Not determined                                                                            |
| <b>Dermal Toxicity:</b>                       | Not determined                                                                            |
| <b>Inhalation Toxicity:</b>                   | Not determined                                                                            |
| <b>Primary Irritation Effect:</b>             | Not determined                                                                            |
| <b>Carcinogenicity</b>                        | Refer to <u>IARC Monograph 68, Silica, Some Silicates and Organic Fibres</u> (June 1997). |
| <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 applicable |
| <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>        | Bury in a licensed landfill according to 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

|                                           |                                                            |
|-------------------------------------------|------------------------------------------------------------|
| <b>Australian AICS Inventory</b>          | All components listed on inventory or are exempt.          |
| <b>New Zealand Inventory of Chemicals</b> | This product does not comply with NZIOC                    |
| <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** Xi - Irritant.

**Risk Phrases** R43 May cause sensitization by skin contact.  
R36/38 Irritating to eyes and skin.

**Safety Phrases** S2 Keep out of reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37 Wear suitable gloves.  
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\*\*\*