## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: UNIVERSAL CEMENT SYSTEMS

Revision Date: 20-Dec-2012

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 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: UNIVERSAL CEMENT SYSTEMS

Synonyms: None
Chemical Family: Blend
UN Number: , UN1773

Dangerous Goods Class:8Subsidiary Risk:NoneHazchem Code:2X

Poisons Schedule: None Allocated Application: Cement 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 WES	ACGIH TLV-TWA
Ferric chloride	7705-08-0	10 - 30%	1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>
Mica	12001-26-2	5 - 10%	TWA: 2.5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>

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

#### HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye and skin burns. May cause respiratory irritation. May be harmful if

swallowed.

**Risk Phrases** R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

**HSNO Classification** Not Determined

## 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 In case of contact, immediately flush skin with plenty of soap and water for at least 15

minutes. Get medical attention.

Immediately flush eyes with large amounts of water for at least 15 minutes. Get Eyes

immediate medical attention.

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek Ingestion

medical attention. Never give anything by mouth to an unconscious person.

**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

**Special Exposure Hazards** Not applicable.

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

**ACCIDENTAL RELEASE MEASURES** 

Personal Precautionary Measures Use appropriate protective equipment.

**Environmental Precautionary** 

Measures

Fire-Fighters

Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning /** 

**Absorption** 

Scoop up and remove.

## HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Wash

hands after use.

Store in a cool, dry location. Product has a shelf life of 12 months. **Storage Information** 

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**Respiratory Protection** Dust/mist respirator. (N95, P2/P3)

Hand Protection Neoprene gloves.

**Skin Protection** Rubber apron.

**Eye Protection** Dust proof goggles.

Other Precautions Eyewash fountains and safety showers must be easily accessible.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Color: Brown
Odor: Odorless
pH: 4

Specific Gravity @ 20 C (Water=1): 1.47

Density @ 20 C (kg/l): Not Determined

Density @ 20 C (kg/l): Bulk Density @ 20 C (kg/m³): Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (C): Not Determined 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/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: 0

**Evaporation Rate (Butyl Acetate=1):** Not Determined Solubility in Water (g/100ml): Not Determined Solubility in Solvents (g/100ml): Not Determined VOCs (q/I): 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** Keep away from any contact with water.

Incompatibility (Materials to

Avoid)

None known.

**Hazardous Decomposition** 

**Products** 

None known.

Additional Guidelines Not Applicable

## 11. TOXICOLOGICAL INFORMATION

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

Sympotoms related to exposure

**Inhalation** May cause respiratory irritation.

**Skin Contact** Prolonged or repeated contact may cause ulceration of the skin.

**Eye Contact** Causes eye burns.

**Ingestion** Causes burns of the mouth, throat and stomach. May cause abdominal pain,

vomiting, nausea, and diarrhea. May cause liver damage.

Aggravated Medical Conditions None known.

**Chronic Effects/Carcinogenicity** Prolonged or repeated exposure may cause liver damage.

Not determined

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 /

**Developmental Toxicity:** 

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not applicable

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**Bury in a licensed landfill according to federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

# **Land Transportation**

**ADR** 

UN1773, Ferric Chloride, Anhydrous, Mixture, 8, III

# **Air Transportation**

ICAO/IATA

UN1773, Ferric Chloride, Anhydrous, Mixture, 8, III

## Sea Transportation

**IMDG** 

UN1773, Ferric Chloride, Anhydrous, Mixture, 8, III EmS F-A. S-B

## **Other Transportation Information**

Labels: Corrosive

## 15. REGULATORY INFORMATION

#### **Chemical Inventories**

Australian AICS Inventory New Zealand Inventory of

Chemicals

US TSCA Inventory EINECS Inventory

Product contains one or more components not listed on inventory.

This product does not comply with NZIOC

All components listed on inventory or are exempt. This product does not comply with EINECS

Classification Xn - Harmful.

Risk Phrases R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

Safety Phrases S2 Keep out of reach of children.

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28 After contact with skin, wash immediately with plenty of water

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 guestions 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\*\*\*