# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: Mud Flush III Liquid

Revision Date: 07-Oct-2013

# 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

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: Mud Flush III Liquid

Synonyms: None

Chemical Family: Lignosulfonate

UN Number: None Dangerous Goods Class: None Subsidiary Risk: None

Hazchem Code:

Poisons Schedule:

Application:

None Allocated

None Allocated

Cement Pre-Flush

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	<b>CAS Number</b>	PERCENT (w/w)	Australia NOHSCNew Zealand		<b>ACGIH TLV-TWA</b>
				WES	
Sodium methyl oleoyl	137-20-2	10 - 30%	Not applicable	Not applicable	Not applicable
taurate					1

2-Ethyl hexanol	104-76-7	1 - 5%	TWA: 50 ppm TWA: TWA: 50 ppm TWA: TWA: 50 ppm		
			266 mg/m <sup>3</sup>	266 mg/m <sup>3</sup>	
Sodium tetraborate	1330-43-4	0 - 1%	TWA: 1 mg/m <sup>3</sup>	3	TWA: 2 mg/m³ STEL: 6 mg/m³

Non-Hazardous Substance to Total of 100%

# 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory irritation. Potential reproductive hazard.

**Risk Phrases** R41 Risk of serious damage to eyes.

R38 Irritating to skin. R60 May impair fertility.

R61 May cause harm to the unborn child.

**HSNO Classification** 6.1E (Oral) Acutely Toxic Substances

6.3B Mildly irritating to the skin

6.8B Human reproductive or developmental toxicants

# 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. Remove

contaminated clothing and launder before reuse.

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

immediate medical attention.

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

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

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

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning / **Absorption** 

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

materials. Scoop up and remove.

# HANDLING AND STORAGE

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

Store away from oxidizers. Keep container closed when not in use. Store locked Storage Information

up. Product has a shelf life of 24 months.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION** 8.

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

**Respiratory Protection** If engineering controls and work practices cannot keep exposure below

> occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified

professional.

Dust/mist respirator. (N95, P2/P3)

**Hand Protection** Neoprene gloves. Nitrile gloves. Viton gloves Impervious rubber gloves.

**Skin Protection** Normal work coveralls. Rubber apron.

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

**Other Precautions** Evewash fountains and safety showers must be easily accessible.

# PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid Color: Light brown Odor: Mild

pH: 9 Specific Gravity @ 20 C (Water=1): 1.19 Density @ 20 C (kg/l): 1.165

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 Min: > 98

Flash Point Method: **PMCC** 

**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 (Butyl Acetate=1):** Not Determined

Solubility in Water (q/100ml): Soluble

Solubility in Solvents (g/100ml): Not Determined VOCs (q/l): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Decomposition Temperature (C):

Not Determined

Not Determined

Not Determined

# 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to

Avoid)

Strong oxidizers. Strong acids. Prolonged contact with aluminum, lead or zinc.

Strong alkalis.

**Hazardous Decomposition** 

**Products** 

Oxides of sulfur. Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

# 11. TOXICOLOGICAL INFORMATION

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

Sympotoms related to exposure

Acute Toxicity

**Product Information**Based on the collective toxicity of product ingredients, the mixture should be considered to

cause the following:

InhalationMay cause mild respiratory irritation.Eye ContactMay cause mild eye irritation.Skin ContactMay cause skin irritation.

**Ingestion** Irritation of the mouth, throat, and stomach.

Chronic Effects/Carcinogenicity May cause reproductive effects based on animal studies. Prolonged or repeated exposure

may cause embryo and fetus toxicity.

Toxicology data for the components

Toxicology data for the compensate					
Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Sodium methyl oleoyl taurate	137-20-2	1700 mg/kg (Rat)	No data available	No data available	
2-Ethyl hexanol	104-76-7	5190 µL/kg (Rat) 1516-2774 mg/kg (Rat) 1480 mg/kg (Rat) 600 mg/kg (Guinea pig)	5660 μL/kg ( Rabbit ) 2520 mg/kg ( Rabbit ) 1980 mg/kg (Rabbit)	227 ppm (Rat) 6h	
Sodium tetraborate	1330-43-4	2403 mg/kg (Rat)	2000 mg/kg (Rabbit)	No data available	

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicological Information**

**Ecotoxicity Product** 

Acute Fish Toxicity: Not determined
Acute Crustaceans Toxicity: Not determined
Acute Algae Toxicity: Not determined

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium methyl oleoyl taurate	137-20-2	No information available	No information available	No information available	No information available
2-Ethyl hexanol	104-76-7	EC50: 11.5 mg/L (Desmodesmus subspicatus)	LC50: 32-37 mg/L (Oncorhynchus mykiss) LC50: 10 - 33 mg/L (Lepomis macrochirus)	No information available	TLM96: > 10000 mg/l (Crangon crangon) EC50 39 mg/L (Daphnia magna)
Sodium tetraborate	1330-43-4	No information available	No information available	No information available	LC50: 141 mg/L (Daphnia magna)

#### 12.2 Persistence and degradability

No information available

#### 12.3 Bioaccumulative potential

No information available

#### 12.4 Mobility in soil

No information available

#### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method**Disposal should be made in accordance with federal, state, and local regulations.

Substance should NOT be deposited into a sewage facility.

Contaminated Packaging Follow all applicable national or local regulations. Contaminated packaging may be

disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging

into commercial waste collection.

# 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

All components listed on inventory or are exempt. All components listed on inventory or are exempt.

US TSCA Inventory EINECS Inventory

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

Classification Xn - Harmful.

Risk Phrases R41 Risk of serious damage to eyes.

R38 Irritating to skin. R60 May impair fertility.

R61 May cause harm to the unborn child.

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

medical advice.

S36/39 Wear suitable protective clothing and eye/face protection.

## 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.

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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\*\*\*