### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: EZ-FLO

Revision Date: 04-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: EZ-FLO Synonyms: None

Chemical Family: Organic acid UN Number: , UN2789

Dangerous Goods Class:8Subsidiary Risk:3Hazchem Code:2WPoisons Schedule:\$6

Application: Flow Enhancer

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS Number PERCENT Australia New Zealand ACGIH TLV-TWA

NOHSC WES

2. COMPOSITION/INFORMATION ON INGREDIENTS					
Acetic acid	64-19-7	30 - 60%	TWA: 10 ppm	STEL: 15 ppm	TWA: 10 ppm
			TWA: 25 mg/m <sup>3</sup>	STEL: 37 mg/m <sup>3</sup>	STEL: 15 ppm
			STEL: 15 ppm	TWA: 10 ppm	
			STEL: 37 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	
Silica, amorphous	7631-86-9	30 - 60%	TWA: 2 mg/m <sup>3</sup>	Not applicable	2 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. Combustible.

R10 Flammable. **Risk Phrases** 

R34 Causes burns.

**HSNO Classification** Not Determined

### FIRST AID MEASURES

Inhalation 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.

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

minutes. Get medical attention. Remove contaminated clothing and launder before

reuse.

In case of contact, or suspected contact, immediately flush eyes with plenty of water Eyes

for at least 15 minutes and get medical attention immediately after flushing.

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

#### FIRE FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide, dry chemical, foam.

Extinguishing media which must None known.

not be used for safety reasons

**Special Exposure Hazards** Decomposition in fire may produce toxic gases. Do not allow runoff to enter

waterways.

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

**Fire-Fighters** 

fire fighting personnel.

### **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** 

Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up

and remove.

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### 7. HANDLING AND STORAGE

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

hands after use. Launder contaminated clothing before reuse.

**Storage Information** Store away from alkalis. Store in a cool well ventilated area. Keep from heat, sparks,

and open flames. Keep container closed when not in use. Product has a shelf life of

24 months.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls**Use in a well ventilated area. Local exhaust ventilation should be used in areas

without good cross ventilation.

**Respiratory Protection** Organic vapor/acid gas respirator.

Hand Protection Impervious rubber gloves.

**Skin Protection** Full protective chemical resistant clothing.

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Slurry Color: White Odor: Acrid

pH: Not Determined

Specific Gravity @ 20 C (Water=1): 1.62

Density @ 20 C (kg/I):Not DeterminedBulk Density @ 20 C (kg/m³):Not DeterminedBoiling Point/Range (C):Not DeterminedFreezing Point/Range (C):Not DeterminedPour Point/Range (C):Not Determined

Flash Point/Range (C): 48

Flash Point Method: Not Determined

Autoignition Temperature (C): 468

Flammability Limits in Air - Lower (g/m³): Not Determined

Flammability Limits in Air - Lower (%): 4

Flammability Limits in Air - Upper (g/m³): Not Determined

Flammability Limits in Air - Upper (%): 19.9 Vapor Pressure @ 20 C (mmHg): 11.4

Vapor Density (Air=1): Not Determined

Percent Volatiles: 50

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): 50

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Not Determined

Not Determined

Partition Coefficient/n-Octanol/Water: -0.17

Molecular Weight (g/mole):

Decomposition Temperature (C):

Not Determined

Not Determined

### 10. STABILITY AND REACTIVITY

Stability Data: Stable

EZ-FLO Page 3 of 6 Hazardous Polymerization: Will Not Occur

**Conditions to Avoid** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers. Strong alkalis. Aldehydes.

**Hazardous Decomposition** 

**Products** 

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

**Inhalation** Causes severe respiratory irritation.

Skin Contact May cause skin burns.

Eye Contact May cause eye burns.

**Ingestion** Causes burns of the mouth, throat and stomach.

**Aggravated Medical Conditions** Skin disorders.

**Chronic Effects/Carcinogenicity** Prolonged, excessive exposure may cause erosion of the teeth.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: LD50: 3310 mg/kg (Rat)

Dermal Toxicity: Not determined
Inhalation Toxicity: Not determined
Primary Irritation Effect: Not determined
Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive / Developmental Toxicity:

Not determined

#### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)Not determinedPersistence/DegradabilityBiodegradable

Bio-accumulation Not determined

### **Ecotoxicological Information**

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

EZ-FLO Page 4 of 6 Chemical Fate InformationNot determinedOther InformationNot 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** 

UN2789, Acetic Acid, Glacial, Mixture, 8, (3), II

## **Air Transportation**

ICAO/IATA

UN2789, Acetic Acid, Glacial, Mixture, 8, (3), II

## Sea Transportation

**IMDG** 

UN2789, Acetic Acid, Glacial, Mixture, 8, (3), II, (48.9 C) EmS F-E, S-C

## **Other Transportation Information**

Labels: Corrosive

Flammable Liquid

### 15. REGULATORY INFORMATION

#### **Chemical Inventories**

**US TSCA Inventory** 

Australian AICS Inventory New Zealand Inventory of

Chemicals

All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

EINECS Inventory This product, and all its components, complies with EINECS

**Classification** C - Corrosive.

**Risk Phrases** R10 Flammable.

R34 Causes burns.

#### **Safety Phrases**

S23 Do not breathe gas, fumes, vapour or spray.

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

medical advice.

S45 In case of accident or if you feel unwell, seek medical advice immediately.

S1/2 Keep locked up and out of reach of children.

### 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\*\*\*