# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: FE-1-60

Revision Date: 04-Jan-2010

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:** FE-1-60 **Synonyms:** None

Chemical Family: Organic acid
UN Number: , UN2790

Dangerous Goods Class:8Subsidiary Risk:NoneHazchem Code:NonePoisons Schedule:NoneApplication:Acid

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 OEL	ACGIH TLV-TWA
Acetic acid	64-19-7	60 - 100%	10 ppm	10 ppm	10 ppm

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

#### HAZARDS IDENTIFICATION

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

Combustible.

R34 Causes burns. **Risk Phrases** 

**HSNO Classification** Not Determined

# **FIRST AID MEASURES**

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably Inhalation

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

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

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 Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must None known.

not be used for safety reasons

**Special Exposure Hazards** Use water spray to cool fire exposed surfaces. Decomposition in fire may produce

toxic gases. Do not allow runoff to enter waterways.

Fire-Fighters

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

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.

Neutralize to pH of 6-8. Scoop up and remove.

# HANDLING AND STORAGE

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

use. Launder contaminated clothing before reuse.

Storage Information Store in a cool well ventilated area. Keep container closed when not in use. Product

has a shelf life of 24 months.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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: Liquid Color: Clear Odor: Acrid pH: 1.38 Specific Gravity @ 20 C (Water=1): 1.05 Density @ 20 C (kg/l): 1.048

Bulk Density @ 20 C (kg/m³): Not Determined

Boiling Point/Range (C): 117
Freezing Point/Range (C): 16

Pour Point/Range (C):

Not Determined

Flash Point/Range (C): 55

Flash Point Method:

Autoignition Temperature (C):

Flammability Limits in Air - Lower (g/m³):

Not Determined

Not Determined

Flammability Limits in Air - Lower (%): 5.4

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

Flammability Limits in Air - Upper (%): 16 Vapor Pressure @ 20 C (mmHg): 11.7

Vapor Density (Air=1): Not Determined

Percent Volatiles: 100

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Not Determined
Not Determined
Not Determined

Molecular Weight (g/mole): 60.6

**Decomposition Temperature (C):**Not Determined

### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

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

Incompatibility (Materials to Strong alkalis.

Avoid)

FE-1-60 Page 3 of 6 **Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

### 11. TOXICOLOGICAL INFORMATION

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

**Inhalation** Causes severe respiratory irritation.

**Skin Contact** Causes severe 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 determined

Persistence/Degradability Readily biodegradable

Bio-accumulation Not determined

### **Ecotoxicological Information**

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

Chemical Fate InformationNot determinedOther InformationNot applicable

# 13. DISPOSAL CONSIDERATIONS

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

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# **Contaminated Packaging**

Follow all applicable national or local regulations.

### 14. TRANSPORT INFORMATION

# **Land Transportation**

**ADR** 

UN2790, Acetic Acid Solution, 8, II

### **Air Transportation**

ICAO/IATA

UN2790, Acetic Acid Solution, 8, II

### Sea Transportation

**IMDG** 

UN2790, Acetic Acid Solution, 8, II 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

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

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

Classification C - Corrosive.

Risk Phrases R34 Causes burns.

Safety Phrases S2 Keep out of reach of children.

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.

### 16. OTHER INFORMATION

The following sections have been revised since the last issue of this MSDS 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 Material Safety Data Sheet for this or other Halliburton

products, contact Chemical Compliance at 1-580-251-4335.

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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\*\*\*