## **HALLIBURTON**

## MATERIAL SAFETY DATA SHEET

Product Trade Name: Fe-8

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: Fe-8
Synonyms: None
Chemical Family: Blend
UN Number: , UN1789

Dangerous Goods Class: 8
Subsidiary Risk: None

Hazchem Code:None AllocatedPoisons Schedule:None AllocatedApplication:Iron Reducing Agent

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					
Ethylene glycol	107-21-1	30 - 60%	TWA: 10 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	Not applicable	100 mg/m <sup>3</sup>
Tin dichloride	7772-99-8	30 - 60%	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Hvdrochloric acid	7647-01-0	10 - 30%	5 ppm	Not applicable	2 ppm

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

#### HAZARDS IDENTIFICATION

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

swallowed.

**Risk Phrases** R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

**HSNO Classification** 6.1D Acutely Toxic Substances 6.6B Human mutagens 8.1A Corrosive to metals

8.2C Corrosive to dermal tissue if exposed for greater than 1 hour 8.3A Corrosive to

ocular tissue 9.3C Harmful to terrestrial vertebrates

#### **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.

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.

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** Treat symptomatically.

## FIRE FIGHTING MEASURES

All standard fire fighting media **Suitable Extinguishing Media** 

Extinguishing media which must None known. not be used for safety reasons

May form explosive mixtures with strong alkalis. Decomposition in fire may produce **Special Exposure Hazards** 

toxic gases.

**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.

## 7. 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 away from alkalis. 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

**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: Liquid

Color: Clear light yellow

 Odor:
 Acidic

 pH:
 1

 Specific Gravity @ 20 C (Water=1):
 1.72

 Density @ 20 C (kg/l):
 1.72

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

Boiling Point/Range (C): 142

Freezing Point/Range (C):

Pour Point/Range (C):

Not Determined

Not Determined

Flash Point/Range (C): Not DeterminedMin: > 82

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/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 (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Not Determined

Not Determined

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Not Determined

Not Determined

Not Determined

Not Determined

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

## 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None known.

Incompatibility (Materials to

Avoid)

Strong alkalis.

**Hazardous Decomposition** 

**Products** 

Flammable hydrogen gas. Chlorine. 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. May cause central nervous system depression

including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

**Skin Contact** Causes severe burns.

**Eye Contact** Causes severe eye burns.

**Ingestion** Causes burns of the mouth, throat and stomach. May cause heart, kidney and brain

disorders.

Aggravated Medical Conditions Skin disorders.

**Chronic Effects/Carcinogenicity** Prolonged or repeated exposure may cause kidney, lung and blood effects.

Prolonged or repeated exposure may cause central nervous system and brain

effects. Prolonged, excessive exposure may cause erosion of the teeth.

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 /

Not determined

**Developmental Toxicity:** 

#### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

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.

**Contaminated Packaging** Follow all applicable national or local regulations.

#### 14. TRANSPORT INFORMATION

## **Land Transportation**

**ADR** 

UN1789, Hydrochloric Acid Solution, 8, II

## Air Transportation

ICAO/IATA

UN1789, Hydrochloric Acid Solution, 8, II

#### Sea Transportation

IMDG

UN1789, Hydrochloric 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 All components listed on inventory or are exempt. All components listed on inventory or are exempt.

Chemicals

**US TSCA Inventory** All components listed on inventory or are exempt.

Fe-8 Page 5 of 6 EINECS Inventory This product, and all its components, complies with EINECS

Classification Xn - Harmful.

Risk Phrases R22 Harmful if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases 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. S36/37/39 Wear suitable protective clothing, gloves 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.

**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\*\*\*