# **HALLIBURTON**

# **MATERIAL SAFETY DATA SHEET**

Product Trade Name: HII-124F INTENSIFIER

Revision Date: 26-Mar-2013

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: HII-124F INTENSIFIER

Synonyms: None

**Chemical Family:** Organic acid **UN Number:** , UN1779

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

Poisons Schedule: None Allocated Application: Intensifier

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

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#### **COMPOSITION/INFORMATION ON INGREDIENTS** 60 - 100% Formic acid TWA: 5 ppm TWA: STEL: 10 ppm TWA: 5 ppm STEL: 19 mg/m<sup>3</sup> 9.4 mg/m<sup>3</sup> STEL: 10 ppm STEL: 10 ppm TWA: 5 ppm TWA: STEL: 19 mg/m<sup>3</sup> 9.4 mg/m<sup>3</sup>

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

#### HAZARDS IDENTIFICATION

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

Flammable.

Risk Phrases R35 Causes severe burns.

**HSNO Classification** 3.1C Flammable Liquids - Medium hazard 6.1C Acutely Toxic Substances 6.1D

> Acutely Toxic Substances 8.1A Corrosive to metals 8.2B Corrosive to dermal tissue if exposed for greater than 3 mins. 8.3A Corrosive to ocular tissue 9.1D Slightly harmful in the aquatic environment 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.

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.

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** Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must None known.

not be used for safety reasons

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

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.

#### 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 away from oxidizers. Keep container closed when not

in use. Product has a shelf life of 12 months.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

without good cross ventilation.

**Respiratory Protection** Acid gas respirator.

Hand Protection Impervious rubber gloves. Neoprene gloves. Polyvinylchloride 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 colorless

 Odor:
 Sharp

 pH:
 1

 Specific Gravity @ 20 C (Water=1):
 1.2

 Density @ 20 C (kg/l):
 1.2

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

Boiling Point/Range (C): 101 Freezing Point/Range (C): 10

Pour Point/Range (C): Not Determined

Flash Point/Range (C): 49

Flash Point Method: Not Determined

Autoignition Temperature (C): 601

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

Flammability Limits in Air - Lower (%): 18

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

Flammability Limits in Air - Upper (%): 57 Vapor Pressure @ 20 C (mmHg): 23

Vapor Density (Air=1): Not Determined

Percent Volatiles: 100

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Miscible

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

Molecular Weight (g/mole): 46.03

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

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# 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to

Avoid)

Strong alkalis. Strong oxidizers.

**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. Causes severe respiratory burns.

**Skin Contact** Causes severe burns.

**Eye Contact** Causes severe 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: Not determined

**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:** 96 Hr EC50 Desmodesmus subspicatus: 25 mg/L

72 Hr EC50 Desmodesmus subspicatus: 26.9 mg/L

Acute Crustaceans Toxicity:48 Hr EC50 Daphnia magna: 138 - 165.6 mg/L [Static]

48 Hr EC50 Daphnia magna: 120 mg/L

96 Hr EC50 Desmodesmus subspicatus: 25 mg/L **Acute Algae Toxicity:** 

72 Hr EC50 Desmodesmus subspicatus: 26.9 mg/L

**Chemical Fate Information** Not determined Other Information Not applicable

# **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.

#### TRANSPORT INFORMATION

### **Land Transportation**

**ADR** 

UN1779, Formic Acid, 8, (3), II

### Air Transportation

ICAO/IATA

UN1779, Formic Acid, 8, (3), II

# Sea Transportation

**IMDG** 

UN1779, Formic Acid, 8, (3), II EmS F-A, S-B

# **Other Transportation Information**

Labels:

Flammable Liquid

#### 15. REGULATORY INFORMATION

#### **Chemical Inventories**

Chemicals

**Australian AICS Inventory New Zealand Inventory of** 

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

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

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

Classification - Corrosive. Risk Phrases R35 Causes severe 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 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\*\*\*