# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: HYFLO IV SURFACTANT

Revision Date: 01-Feb-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: HYFLO IV SURFACTANT

Synonyms: None
Chemical Family: Blend
UN Number: , UN1993

Dangerous Goods Class:3Subsidiary Risk:NoneHazchem Code:3[Y]Poisons Schedule:S5Application:Surfactant

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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 WES	ACGIH TLV-TWA
Isooctanol	26952-21-6	5 - 10%	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm
			TWA: 266 mg/m <sup>3</sup>	TWA: 266 mg/m <sup>3</sup>	

2. COMPOSITION/INFORMATION ON INGREDIENTS								
Naphthalene	91-20-3	5-10	TWA: 10 ppm TWA: 52 mg/m <sup>3</sup> STEL: 15 ppm STEL: 79 mg/m <sup>3</sup>	STEL: 15 ppm STEL: 79 mg/m <sup>3</sup> TWA: 10 ppm TWA: 52 mg/m <sup>3</sup>	TWA: 10 ppm STEL: 15 ppm			
Heavy aromatic petroleum naphtha	64742-94-5	30 - 60%	Not applicable	Not applicable	Not applicable			
Alkyl hexanol	Proprietary	5-10	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup>	TWA: 50 ppm			

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

## HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye and skin irritation. May cause headache, dizziness, and other central

nervous system effects. May be harmful if swallowed. Combustible.

**Risk Phrases** R40 Limited evidence of a carcinogenic effect.

R36/38 Irritating to eyes and skin.

**HSNO Classification** 3.1C Flammable Liquids - Medium hazard 6.3B Mildly irritating to the skin 6.4A

Irritating to the eye 6.7B Suspected human carcinogens

## 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.

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

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

Get medical attention! If vomiting occurs, keep head lower than hips to prevent Ingestion

aspiration.

**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.

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. Wear self-contained breathing apparatus in enclosed areas.

> **HYFLO IV SURFACTANT** Page 2 of 6

**Environmental Precautionary** 

**Measures** 

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

**Absorption** 

Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. 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 oxidizers. 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 respirator.

Hand Protection Impervious rubber gloves.

**Skin Protection** Rubber apron.

**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 to slightly hazy amber

Odor: Hydrocarbon

pH: 6.8 Specific Gravity @ 20 C (Water=1): 0.91 Density @ 20 C (kg/l): 0.9081

Bulk 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): 53

Flash Point Method:

Autoignition Temperature (C):

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

Flammability Limits in Air - Lower (%):

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

Not Determined

Vapor Pressure @ 20 C (mmHg): 20.3

Vapor Density (Air=1): Not Determined

Percent Volatiles: 37.87

Evaporation Rate (Butyl Acetate=1):

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

VOCs (g/l):

Not Determined

Not Determined

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Not Determined

Not Determined

HYFLO IV SURFACTANT Page 3 of 6

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Decomposition Temperature (C):

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.

**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

**Inhalation** May cause respiratory irritation. This material is an anesthetic. May cause central

nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and

unconsciousness.

**Skin Contact** May cause skin irritation.

**Eye Contact** May cause moderate eye irritation.

**Ingestion** Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting,

nausea, and diarrhea. Aspiration into the lungs may cause chemical pneumonitis

including coughing, difficulty breathing, wheezing, coughing up blood and

pneumonia, which can be fatal.

Aggravated Medical Conditions Skin disorders. Eye ailments.

**Chronic Effects/Carcinogenicity** Repeated overexposure may cause liver and kidney effects.

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

HYFLO IV SURFACTANT Page 4 of 6 Reproductive / Developmental Toxicity:

Not determined

# 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Slowly biodegradable

Bio-accumulation Not determined

# **Ecotoxicological Information**

Acute Fish Toxicity: Not determined

Acute Crustaceans Toxicity: TLM96: 3300 ppm (Crangon crangon)

Acute Algae Toxicity: Not determined

Chemical Fate Information Not determined

Other Information Not 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**

UN1993, Flammable Liquid, N.O.S. (Contains Amyl Alcohol, Petroleum Naphtha), 3, III

# **Air Transportation**

#### ICAO/IATA

UN1993, Flammable Liquid, N.O.S., 3, III (Contains Amyl Alcohol, Petroleum Naphtha)

# **Sea Transportation**

## **IMDG**

UN1993, Flammable Liquid, N.O.S. (Contains Amyl Alcohol, Petroleum Naphtha), 3, III, (59 C) EmS F-E, S-E

# Other Transportation Information

Labels: Flammable Liquid

# 15. REGULATORY INFORMATION

### **Chemical Inventories**

HYFLO IV SURFACTANT Page 5 of 6 Australian AICS Inventory New Zealand Inventory of

Chemicals

**US TSCA Inventory EINECS Inventory** 

Product contains one or more components not listed on inventory.

This product does not comply with NZIOC

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

Classification Xn - Harmful.

Xi - Irritant.

Risk Phrases R40 Limited evidence of a carcinogenic effect.

R36/38 Irritating to eyes and skin.

**Safety Phrases** 

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.

**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\*\*\*