### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: TRI-S SURFACTANT

Revision Date: 02-Jan-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: TRI-S SURFACTANT

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

Dangerous Goods Class:3Subsidiary Risk:NoneHazchem Code:3[Y]Poisons Schedule:S5

Application: Surfactant

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number			New Zealand WES	ACGIH TLV-TWA
Dodecyl diphenylether disulfonic	67968-24-5	30 - 60%	Not applicable	Not applicable	Not applicable
acid ammonium salt					

#### **COMPOSITION/INFORMATION ON INGREDIENTS** Methanol 5 - 10% TWA: 200 ppm STEL: 250 ppm TWA: 200 ppm TWA: 262 mg/m<sup>3</sup> STEL: 328 mg/m<sup>3</sup> STEL: 250 ppm STEL: 250 ppm TWA: 200 ppm STEL: 328 mg/m<sup>3</sup> TWA: 262 mg/m<sup>3</sup>

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

#### HAZARDS IDENTIFICATION

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

> other central nervous system effects. May be harmful if swallowed. May cause blindness. May be absorbed through the skin. Repeated overexposure may cause

liver and kidney effects. Combustible.

Risk Phrases R10 Flammable.

R40/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in

contact with skin, and if swallowed.

**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.

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

Water fog, carbon dioxide, foam, dry chemical. Suitable Extinguishing Media

Extinguishing media which must None known.

not be used for safety reasons

Special Exposure Hazards

May be ignited by heat, sparks or flames. Use water spray to cool fire exposed

surfaces. Closed containers may explode in fire. 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.

**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 nonsparking tools. Contain spill with sand or other inert materials. 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 away from oxidizers. Keep from heat, sparks, and open flames. Keep container

closed when not in use.

#### **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** Positive pressure self-contained breathing apparatus if methanol is released.

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Rubber apron.

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

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

#### PHYSICAL AND CHEMICAL PROPERTIES

Liquid **Physical State:** Color: Amber Odor: Ammonia 8.2 pH: Specific Gravity @ 20 C (Water=1): 1.06 Density @ 20 C (kg/l): 1.058

Bulk Density @ 20 C (kg/m3): Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (C): Not Determined Pour Point/Range (C): Not Determined

42 Flash Point/Range (C):

Not Determined Flash Point Method: **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): 127

Not Determined Vapor Density (Air=1):

**Percent Volatiles:** 

**Evaporation Rate (Butyl Acetate=1):** Not Determined

Solubility in Water (g/100ml): Soluble

Not Determined Solubility in Solvents (g/100ml): VOCs (g/l): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined

Viscosity, Kinematic @ 20 C (centistokes): Not Determined

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### 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** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Oxides of nitrogen. 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 central nervous system depression including headache, dizziness,

drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and

unconsciousness.

May cause respiratory irritation.

**Skin Contact** May cause skin irritation. May be absorbed through the skin and produce effects

similar to those caused by inhalation and/or ingestion.

**Eye Contact** May cause eye irritation.

Ingestion May be fatal or cause blindness if swallowed. May cause central nervous system

depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech,

giddiness, tremors and convulsions. May cause liver and kidney damage. May affect

the heart and cardiovascular system.

**Aggravated Medical Conditions** Skin disorders. Eye ailments.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart,

central nervous system and spleen damage.

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

TRI-S SURFACTANT Page 4 of 6 Reproductive / Developmental Toxicity:

Not determined

### 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Resistant

Bio-accumulation Not determined

## **Ecotoxicological Information**

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined 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 Methanol), 3, III

## **Air Transportation**

ICAO/IATA

UN1993,Flammable Liquid, N.O.S., 3, III (Contains Methanol)

## **Sea Transportation**

**IMDG** 

UN1993,Flammable Liquid, N.O.S.(Contains Methanol), 3, III, (42.2 C) EmS F-E, S-E

### Other Transportation Information

Labels: Flammable Liquid

### 15. REGULATORY INFORMATION

**Chemical Inventories** 

TRI-S SURFACTANT Page 5 of 6 Australian AICS Inventory New Zealand Inventory of

Chemicals

US TSCA Inventory EINECS Inventory

All components listed on inventory or are exempt.

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.

Risk Phrases R10 Flammable.

R40/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in

contact with skin, and if swallowed.

Safety Phrases S7 Keep container tightly closed.

S16 Keep away from sources of ignition - No Smoking.

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. S36/37 Wear suitable protective clothing and gloves.

## 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\*\*\*