# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: SSO-21

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: SSO-21 Synonyms: None Chemical Family: Blend UN Number: , UN1993

Dangerous Goods Class:3Subsidiary Risk:NoneHazchem Code:3[Y]Poisons Schedule:S6

Application: Surfactant

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
Diethylene glycol	111-46-6	1 - 5%	TWA: 23 ppm TWA: 100 mg/m <sup>3</sup>	TWA: 23 ppm TWA: 101 mg/m <sup>3</sup>	Not applicable

2. COMPOSITION/INFORMATION ON INGREDIENTS								
Isooctanol	26952-21-6	1 - 5%	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup>	TWA: 50 ppm			
Nonylphenol ethoxylate	Proprietary	30 - 60%	Not applicable	Not applicable	Not applicable			
Methanol	67-56-1	10 - 30%	TWA: 200 ppm TWA: 262 mg/m <sup>3</sup> STEL: 250 ppm STEL: 328 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 328 mg/m <sup>3</sup> TWA: 200 ppm TWA: 262 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 250 ppm			
Ethylene glycol monobutyl ether	111-76-2	10 - 30%	TWA: 20 ppm TWA: 96.9 mg/m³ STEL: 50 ppm STEL: 242 mg/m³	TWA: 25 ppm TWA: 121 mg/m <sup>3</sup>	TWA: 20 ppm			

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

#### HAZARDS IDENTIFICATION

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

and other central nervous system effects. May be fatal if swallowed. May cause

blindness. May be absorbed through the skin. Combustible.

**Risk Phrases** R10 Flammable.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R20/21/22 Harmful by inhalation, by contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious 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.

Ingestion If swallowed, induce vomiting immediately by giving two glasses of water and sticking

fingers down throat; never give anything to an unconscious person. Get medical

attention.

**Notes to Physician** Not Applicable

# FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Carbon dioxide, dry chemical, foam.

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

Use water spray to cool fire exposed surfaces. Closed containers may explode in **Special Exposure Hazards** 

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

**Hand Protection** Impervious rubber gloves.

Rubber apron. Skin Protection

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

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

# PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

Color: Clear light amber

Sweet Odor: pH: 6 Specific Gravity @ 20 C (Water=1): 0.99 Density @ 20 C (kg/l): 0.988

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

**Boiling Point/Range (C):** 86 Freezing Point/Range (C): -46

Pour Point/Range (C): Not Determined

Flash Point/Range (C): 41 **PMCC** Flash Point Method:

**Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (g/m<sup>3</sup>): Not Determined

Flammability Limits in Air - Lower (%): 2.2

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

Flammability Limits in Air - Upper (%): 36 95 Vapor Pressure @ 20 C (mmHg):

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

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:

Molecular Weight (g/mole):

Decomposition Temperature (C):

Not Determined

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** 

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** May cause severe skin irritation. May be absorbed through the skin and contribute to

the symptoms listed under ingestion.

**Eye Contact** Causes severe eye irritation May cause eye burns.

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.

**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. Prolonged or repeated exposure may cause embryo and fetus toxicity. May contain ethylene oxide in the headspace of the

drum. Ethylene oxide is a cancer and reproductive hazard.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: Not determined

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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 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, (41.1 C) EmS F-E, S-E

# Other Transportation Information

Labels: Flammable Liquid

# 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.

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 T - Toxic.

**Risk Phrases** R10 Flammable.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R20/21/22 Harmful by inhalation, by contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in

contact with skin, and if swallowed.

Safety Phrases S2 Keep out of reach of children.

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. 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\*\*\*

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