

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** SSO-21HT

**Revision Date:** 04-Jan-2011

## 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  
New Zealand: 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-21HT  
**Synonyms:** None  
**Chemical Family:** Blend  
**UN Number:** , UN1993  
**Dangerous Goods Class:** 3  
**Subsidiary Risk:** None  
**Hazchem Code:** None Allocated  
**Poisons Schedule:** None Allocated  
**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
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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Methanol	67-56-1	1 - 5%	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/m <sup>3</sup> STEL: 50 ppm STEL: 242 mg/m <sup>3</sup>	TWA: 25 ppm TWA: 121 mg/m <sup>3</sup>	TWA: 20 ppm
Ethoxylated nonylphenol	Proprietary	30 - 60%	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	1 - 5%	TWA: 400 ppm TWA: 983 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup>	STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup> TWA: 400 ppm TWA: 983 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm
Ethylene glycol	107-21-1	1 - 5%	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>

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

## 3. HAZARDS IDENTIFICATION

### Hazard Overview

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May be absorbed through the skin. May be harmful if swallowed. May cause blindness. May cause damage to internal organs. Flammable.

### Risk Phrases

R10 Flammable.  
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

## 4. 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.

### 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

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

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

**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.

**Special Protective Equipment for Fire-Fighters** Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

## 6. 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 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. Do NOT consume food, drink, or tobacco in contaminated areas. Ground and bond containers when transferring from one container to another.

**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. Store at temperatures between 50 and 100 F (10 and 37.8 C). Do not freeze.

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

**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

<b>Physical State:</b>	Liquid
<b>Color:</b>	Light yellow
<b>Odor:</b>	Mild
<b>pH:</b>	7.5
<b>Specific Gravity @ 20 C (Water=1):</b>	1.02
<b>Density @ 20 C (kg/l):</b>	1.018
<b>Bulk Density @ 20 C (kg/m<sup>3</sup>):</b>	Not Determined
<b>Boiling Point/Range (C):</b>	Not Determined
<b>Freezing Point/Range (C):</b>	-4

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Pour Point/Range (C):	Not Determined
Flash Point/Range (C):	43
Flash Point Method:	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (g/m <sup>3</sup> ):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (g/m <sup>3</sup> ):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined
Vapor Pressure @ 20 C (mmHg):	1
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	52.5
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Soluble
Solubility in Solvents (g/100ml):	Not Determined
VOCs (g/l):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined
Molecular Weight (g/mole):	Not Determined
Decomposition Temperature (C):	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.
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### Symptoms 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.

<b>Skin Contact</b>	May be absorbed through the skin and contribute to the symptoms listed under ingestion. May cause skin irritation.
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<b>Eye Contact</b>	Causes severe eye irritation May cause corneal injury.
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<b>Ingestion</b>	May be fatal or cause blindness if swallowed. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central nervous system depression. May cause liver and kidney damage.
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<b>Aggravated Medical Conditions</b>	Skin disorders. Lung disorders.
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<b>Chronic Effects/Carcinogenicity</b>	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.
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<b>Other Information</b>	None known.
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#### **Toxicity Tests**

<b>Oral Toxicity:</b>	Not determined
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<b>Dermal Toxicity:</b>	Not determined
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<b>Inhalation Toxicity:</b>	Not determined
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<b>Primary Irritation Effect:</b>	Not determined
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<b>Carcinogenicity</b>	Not determined
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<b>Genotoxicity:</b>	Not determined
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<b>Reproductive / Developmental Toxicity:</b>	Not determined
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### **12. ECOLOGICAL INFORMATION**

<b>Mobility (Water/Soil/Air)</b>	Not determined
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<b>Persistence/Degradability</b>	Not determined
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<b>Bio-accumulation</b>	Not determined
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#### **Ecotoxicological Information**

<b>Acute Fish Toxicity:</b>	Not determined
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<b>Acute Crustaceans Toxicity:</b>	Not determined
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<b>Acute Algae Toxicity:</b>	Not determined
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<b>Chemical Fate Information</b>	Not determined
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<b>Other Information</b>	Not applicable
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### **13. DISPOSAL CONSIDERATIONS**

<b>Disposal Method</b>	Disposal should be made in accordance with federal, state, and local regulations.
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<b>Contaminated Packaging</b>	Follow all applicable national or local regulations.
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### **14. TRANSPORT INFORMATION**

#### **Land Transportation**

##### **ADR**

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

#### **Air Transportation**

## ICAO/IATA

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

## Sea Transportation

### IMDG

UN1993, Flammable Liquid, N.O.S. (Contains Methanol, Isopropanol), 3, III, (33.9 C)  
EmS F-E, S-E

## Other Transportation Information

Labels: Flammable Liquid

## 15. REGULATORY INFORMATION

### Chemical Inventories

<b>Australian AICS Inventory</b>	All components listed on inventory or are exempt.
<b>New Zealand Inventory of Chemicals</b>	This product does not comply with NZIOC
<b>US TSCA Inventory</b>	All components listed on inventory or are exempt.
<b>EINECS Inventory</b>	This product does not comply with EINECS

**Classification** Xn - Harmful.

**Risk Phrases**

R10 Flammable.  
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 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**

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**\*\*\*END OF MSDS\*\*\***