HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: LOSURF-300 NONIONIC SURFACTANT

Revision Date: 24-Apr-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: LOSURF-300 NONIONIC SURFACTANT

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

Dangerous Goods Class:3Subsidiary Risk:NoneHazchem Code:3[Y]E

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
Light aromatic solvent	64742-95-6	10 - 30%	Not applicable	Not applicable	Not applicable

2. COMPOSITION/INFORMATION ON INGREDIENTS								
Naphthalene	91-20-3	1 - 5%	TWA: 10 ppm	STEL: 15 ppm	TWA: 10 ppm			
			TWA: 52 mg/m ³	STEL: 79 mg/m ³	STEL: 15 ppm			
			STEL: 15 ppm	TWA: 10 ppm				
			STEL: 79 mg/m ³	TWA: 52 mg/m ³				
Ethoxylated nonylphenol	Proprietary	5 - 10%	Not applicable	Not applicable	Not applicable			
Isopropanol	67-63-0	30 - 60%	TWA: 400 ppm	STEL: 500 ppm	TWA: 200 ppm			
			TWA: 983 mg/m ³	STEL: 1230 mg/m ³	STEL: 400 ppm			
			STEL: 500 ppm	TWA: 400 ppm				
			STEL: 1230 mg/m ³	TWA: 983 mg/m ³				

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. Flammable.

Potential carcinogen.

Risk Phrases R10 Flammable.

R40 Limited evidence of a carcinogenic effect.

R23/24/25 Toxic 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

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably Inhalation

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

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

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.

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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. Wash hands after

use. Launder contaminated clothing before reuse. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering ControlsUse in a well ventilated area. Local exhaust ventilation should be used in areas

without good cross ventilation.

Respiratory Protection Organic vapor respirator.

In high concentrations, supplied air respirator or a self-contained breathing

apparatus.

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:
 Amber

 Odor:
 Alcohol

 pH:
 7.5

 Specific Gravity @ 20 C (Water=1):
 0.91

 Density @ 20 C (kg/l):
 0.91

Bulk Density @ 20 C (kg/m³):

Boiling Point/Range (C):

Not Determined

Not Determined

Freezing Point/Range (C): -2

Pour Point/Range (C):

Not Determined

Flash Point/Range (C): 18
Flash Point Method: PMCC

Autoignition Temperature (C):

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

Flammability Limits in Air - Lower (%):

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

Flammability Limits in Air - Upper (%):

Vapor Pressure @ 20 C (mmHg):

Not Determined

Not Determined

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9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Density (Air=1): Not Determined

Percent Volatiles: 60-65

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):

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

May cause 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 skin defatting with prolonged exposure. Can dry skin.

Eye Contact May cause eye irritation.

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

nausea, and diarrhea. May cause headache, dizziness, nausea, vomiting,

gastrointestinal irritation and central nervous system depression.

Aggravated Medical Conditions Skin disorders. Eye ailments.

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

distillates which have been shown to cause skin cancer in laboratory animals. The International Agency for Research on Cancer (IARC) has evaluated naphthalene and determined it to be a possible carcinogen to humans (Group 2B, based on

and determined it to be a possible carcinogen to humans (Group 2B, based on sufficient evidence in experimental animals and inadequate evidence in humans).

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: 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 Isopropanol), 3, II

Air Transportation

ICAO/IATA

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

Sea Transportation

IMDG

UN1993, Flammable Liquid, N.O.S.(Contains Isopropanol), 3, II, (17.2 C) EmS F-E, S-E

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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 does not comply with EINECS

Classification T - Toxic.

Risk Phrases R10 Flammable.

R40 Limited evidence of a carcinogenic effect.

R23/24/25 Toxic 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.

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.

S53 Avoid exposure - obtain special instructions before use.

S24/25 Avoid contact with skin and eyes.

16. OTHER INFORMATION

The following sections have been revised since the last issue of this SDS Not applicable

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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.

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END OF MSDS