HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: 10% ACETIC ACID WITH MSA-II, PEN-88HT, AND

LOSURF-300M

29-May-2009 **Revision Date:**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, Non-Dangerous Goods according to

the criteria of ADG.

Halliburton Australia Pty. Ltd. Manufacturer/Supplier

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

10% ACETIC ACID WITH MSA-II, PEN-88HT, AND LOSURF-300M **Product Trade Name:**

Synonyms: None Organic acid **Chemical Family:** None **UN Number:**

None **Dangerous Goods Class: Subsidiary Risk:** None

None Allocated **Hazchem Code:** None Allocated **Poisons Schedule:** Solvent

Application:

Chemical Compliance **Prepared By**

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS Number Australia ACGIH TLV-TWA PERCENT New Zealand

> NOHSC **WES**

10% ACETIC ACID WITH MSA-II, PEN-88HT, AND LOSURF-300M Page 1 of 6

2. COMPOSITION/INFORMATION ON INGREDIENTS					
Isopropanol	67-63-0	1 - 5%	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	
Acetic acid	64-19-7	10 - 30%	TWA: 10 ppm	STEL: 15 ppm	TWA: 10 ppm
			TWA: 25 mg/m ³	STEL: 37 mg/m ³	STEL: 15 ppm
			STEL: 15 ppm	TWA: 10 ppm	
			STEL: 37 mg/m ³	TWA: 25 mg/m ³	

Non-Hazardous Substance to Total of 100%

HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory irritation. May be harmful if swallowed.

Combustible.

Risk Phrases

R36/38 Irritating to eyes and skin.

HSNO Classification Not Determined

FIRST AID MEASURES

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation

develops or if breathing becomes difficult.

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

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

Decomposition in fire may produce toxic gases. Reaction with steel and certain other

metals generates flammable hydrogen gas.

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.

Environmental Precautionary Measures

Prevent from entering sewers, waterways, or low areas.

10% ACETIC ACID WITH MSA-II, PEN-88HT, AND LOSURF-300M Page 2 of 6

Procedure for Cleaning / Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Scoop up and remove.

7. HANDLING AND STORAGE

Handling Precautions Wash hands after use. Launder contaminated clothing before reuse. Avoid contact

with eyes, skin, or clothing. Avoid breathing vapors.

Storage Information Store away from alkalis. Store in a cool well ventilated area. Keep container closed

when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls Use in a well ventilated area.

Respiratory ProtectionNot normally needed. But if significant exposures are possible then the following

respirator is recommended:

Organic vapor/acid gas respirator with a dust/mist filter.

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
Odor: Vinegar
pH: < 2

Not Determined Specific Gravity @ 20 C (Water=1): Density @ 20 C (kg/l): Not Determined 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 Flash Point/Range (C): Not Determined Flash Point Method: Not Determined

Autoignition Temperature (C): 426

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

Flammability Limits in Air - Lower (%): 5.4

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

Flammability Limits in Air - Upper (%): 16

Vapor Pressure @ 20 C (mmHg):Not DeterminedVapor Density (Air=1):Not DeterminedPercent Volatiles:Not DeterminedEvaporation 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:

Not Determined

Not Determined

Not Determined

Molecular Weight (g/mole): 60.6

Decomposition Temperature (C): Not Determined

10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to

Avoid)

Strong alkalis. 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.

Skin Contact May cause severe skin irritation.

Eye Contact May cause severe eye irritation.

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

nausea, and diarrhea.

Aggravated Medical Conditions Skin disorders.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are

chronic health hazards.

Other Information None known.

Toxicity Tests

Oral Toxicity: LD50: 3310 mg/kg (Rat)

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive / Developmental Toxicity:

Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

10% ACETIC ACID WITH MSA-II, PEN-88HT, AND LOSURF-300M Page 4 of 6

Ecotoxicological Information

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate InformationNot determinedOther InformationNot 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

Not restricted

Air Transportation

ICAO/IATA

Not restricted

Sea Transportation

IMDG

Not restricted

Other Transportation Information

Labels: None

15. REGULATORY INFORMATION

Chemical Inventories

Australian AICS Inventory New Zealand Inventory of

Chemicals

Product contains one or more components not listed on inventory.

This product does not comply with NZIOC

US TSCA Inventory All components listed on inventory or are exempt.

EINECS Inventory This product does not comply with EINECS

Classification Xi - Irritant.

Risk Phrases

R36/38 Irritating to eyes and skin.

Safety Phrases

S23 Do not breathe gas, fumes, vapour or spray.

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.

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.

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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

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END OF MSDS