

MATERIAL SAFETY DATA SHEET

Product Trade Name: MUSOL	E SOLVENT
---------------------------	-----------

Revision Date:

06-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: Synonyms:	MUSOL E SOLVENT None
Chemical Family:	Glycol Ether
UN Number:	, UN3092
Dangerous Goods Class:	3
Subsidiary Risk:	None
Hazchem Code:	2[Y]E
Poisons Schedule:	None Allocated
Application:	Surfactant Solvent
Prepared By	Chemical Compliance Telephone: 1-580-251-4335 e-mail: fdunexchem@halliburton.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS Number

Australia NOHSC New Zealand WES **ACGIH TLV-TWA**

MUSOL E SOLVENT Page 1 of 6

PERCENT

2. COMPOSITION/INFO	ORMATION ON	INGREDIENT	S		
1-Methoxy-2-propanol	107-98-2	60 - 100%	TWA: 100 ppm TWA: 369 mg/m ³ STEL: 150 ppm STEL: 553 mg/m ³	STEL: 150 ppm STEL: 553 mg/m ³ TWA: 100 ppm TWA: 369 mg/m ³	TWA: 100 ppm STEL: 150 ppm

Non-Hazardous Substance to Total of 100%

3. HAZARDS IDENTIFICAT	ΓΙΟΝ
Hazard Overview	May cause eye and skin irritation. May cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. Flammable.
Risk Phrases	R10 Flammable.
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	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
Notes to Physician	Not Applicable
5. FIRE FIGHTING MEASU	RES
Suitable Extinguishing Media	Water fog, carbon dioxide, foam, dry chemical.

Suitable Extinguisting Media	water rog, carbon dioxide, roam, 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. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.
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 Measure	s Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.
Environmental Precautionary Measures	Prevent from entering sewers, waterways, or low areas.

MUSOL E SOLVENT Page 2 of 6 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.

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. May discolor mild steel. Product has a shelf life of 36 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	Organic vapor respirator.
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

orless er Determined 8 Determined Determined Determined Determined Determined ג Determined Determined Determined uble Determined Determined Determined Determined

MUSOL E SOLVENT Page 3 of 6

9. PHYSICAL AND CHEMICAL PROPERTIES 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	None anticipated
Incompatibility (Materials to Avoid)	Strong oxidizers.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide.
Additional Guidelines	Not Applicable
11. TOXICOLOGICAL INFO	DRMATION
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 be absorbed through the skin and contribute to the symptoms listed under ingestion. May cause skin irritation.
Eye Contact	May cause eye irritation.
Ingestion	May cause abdominal pain, vomiting, nausea, and diarrhea. May produce nervous system effects such as feeling of weakness, unsteady walk, and dilation of blood vessels.
Aggravated Medical Conditions	Skin disorders. Eye ailments.
Chronic Effects/Carcinogenicity	May cause testicular toxicity. May cause birth defects.
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
Reproductive / Developmental Toxicity:	Not determined

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)	Not determined	
Persistence/Degradability	Not determined	
Bio-accumulation	Not determined	
Ecotoxicological Information		

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

UN3092,1-Methoxy-2-Propanol Solution, 3, III

Air Transportation

ICAO/IATA

UN3092,1-Methoxy-2-Propanol Solution, 3, III

Sea Transportation

IMDG

UN3092,1-Methoxy-2-Propanol Solution, 3, III, (31.7 C) EmS F-A, S-D

Other Transportation Information

Labels:

Flammable Liquid

15. REGULATORY INFORMATION

Chemical Inventories

All components listed on inventory or are exempt.
This product does not comply with NZIOC
All second stated as investory on the successful
All components listed on inventory or are exempt.

MUSOL E SOLVENT Page 5 of 6

EINECS Inventory	This product, and all its components, complies with EINECS
Classification	Not Classified
Risk Phrases	R10 Flammable.
Safety Phrases	S2 Keep out of reach of children. S24 Avoid contact with skin.

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

MUSOL E SOLVENT Page 6 of 6