## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: EZ MUL® NTE

Revision Date: 26-Sep-2013

# 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.

Manufacturer/Supplier Halliburton/Baroid 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: EZ MUL® NTE

Synonyms: None
Chemical Family: Blend
UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code:None AllocatedPoisons Schedule:None AllocatedApplication:Emulsifier

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS Number PERCENT (w/w) Australia NOHSCNew Zealand ACGIH TLV-TWA WES

Fatty acid, tall-oil, reaction	68990-47-6	60 - 100%	Not applicable	Not applicable	Not applicable
product with					
diethylenetriamine, maleic					
anhydride,					
tetraethylenepentamine, and triethylenetriamine					
-					
Ethylene glycol monobutyl	111-76-2			TWA: 25 ppm TWA:	TWA: 20 ppm
ether			96.9 mg/m <sup>3</sup>	121 mg/m <sup>3</sup>	
			STEL: 50 ppm		
			STEL: 242 mg/m <sup>3</sup>		
Diethylene glycol monobutyl ether	112-34-5	1 - 5%	Not applicable	Not applicable	Not applicable

Non-Hazardous Substance to Total of 100%

#### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye and skin irritation. May cause headache, dizziness, and other

central nervous system effects. May be harmful if swallowed. Repeated

overexposure may cause liver and kidney effects.

Risk Phrases R43 May cause sensitization by skin contact.

R36/38 Irritating to eyes and skin.

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** Wash with soap and water. Get medical attention if irritation persists.

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 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** Decomposition in fire may produce toxic gases. Use water spray to cool fire

exposed surfaces.

**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.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

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** 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 container closed when not in use.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area.

**Respiratory Protection** Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Organic vapor respirator with a dust/mist filter. (A2P2/P3)

Hand Protection Impervious rubber gloves.

**Skin Protection** Normal work coveralls.

**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:LiquidColor:Dark brownOdor:Mild hydrocarbon

pH: 3-4
Specific Gravity @ 20 C (Water=1): 0.93
Density @ 20 C (kg/l): 0.93

Bulk Density @ 20 C (kg/M3): Not Determined

Boiling Point/Range (C): Not Determined Min: > 100

Freezing Point/Range (C):

Pour Point/Range (C):

Not Determined

Not Determined

Flash Point/Range (C): 147
Flash Point Method: PMCC

**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/m³): Not Determined Flammability Limits in Air - Upper (%): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **Evaporation Rate (Butyl Acetate=1):** Not Determined Solubility in Water (g/100ml): Insoluble

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

VOCs (g/l):

Insoluble

Not Determined

Not Determined

EZ MUL® NTE Page 3 of 7 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 None anticipated

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Oxides of nitrogen. Carbon monoxide and carbon dioxide. Hydrocarbons.

Additional Guidelines Not Applicable

## 11. TOXICOLOGICAL INFORMATION

**Principle Route of Exposure** Eye or skin contact, inhalation.

Sympotoms related to exposure

**Acute Toxicity** 

Inhalation May cause respiratory irritation. May cause central nervous system depression including

headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech,

giddiness and unconsciousness.

**Eye Contact** May cause eye irritation.

**Skin Contact** May cause skin irritation. May cause an allergic skin reaction.

**Ingestion** 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.

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

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetriamine	68990-47-6	No data available	No data available	No data available
Ethylene glycol monobutyl ether	111-76-2	470 mg/kg (Rat) 1414 mg/kg (Guinea pig)	220 mg/kg(Rabbit) 2270 mg/kg(Rat) 200 mg/kg (Guinea pig)	450 ppm (Rat)4 h 2.174 mg/L (Rat)4 h
Diethylene glycol monobutyl ether	112-34-5	3384 mg/kg (Rat)	2700 mg/kg (Rabbit)	No data available

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicological Information**

**Ecotoxicity Product** 

Acute Fish Toxicity: EC50: > 10000 mg/kg (Corophium volutator)

Acute Crustaceans Toxicity: TLM48: > 2000 mg/l (Acartia tonsa)

Acute Algae Toxicity: EC50: 7.73 mg/l (Skeletonema costatum)

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Fatty acid, tall-oil, reaction product with diethylenetriamine, maleic anhydride, tetraethylenepentamine, and triethylenetriamine	68990-47-6	No information available	No information available	No information available	No information available
Ethylene glycol monobutyl ether	111-76-2	EC50: 839.56 mg/l (Skeletonema costatum)	LC50: > 1000 mg/l (Scophthalmus maximus juvenile)	No information available	EC50: >1000 mg/L (Daphnia magna)
Diethylene glycol monobutyl ether	112-34-5	EC50: > 100 mg/L (Desmodesmus subspicatus)	LC50: 1300 mg/L (Lepomis macrochirus)	EC10: >1997 mg/L (Activated sludge, industrial)	EC50: > 100 mg/L (Daphnia magna)

#### 12.2 Persistence and degradability

No information available

#### 12.3 Bioaccumulative potential

No information available

Substances	Log Pow
Ethylene glycol monobutyl ether	0.9

#### 12.4 Mobility in soil

No information available

#### 12.5 Results of PBT and vPvB assessment

No information available.

#### 12.6 Other adverse effects

## 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

US TSCA Inventory EINECS Inventory

Product contains one or more components not listed on inventory.

All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

Classification Xi - Irritant.

Risk Phrases R43 May cause sensitization by skin contact.

R36/38 Irritating to eyes and skin.

Safety Phrases S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28 After contact with skin, wash immediately with plenty of water

S24/25 Avoid contact with skin and eyes.

S37/39 Wear suitable 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\*\*\*