# **HALLIBURTON**

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

# **NOR-MUL**

Revision Date: 29-Nov-2010 Revision Number: 2

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name NOR-MUL

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Emulsifier

Uses Advised Against No information available

# Details of the supplier of the safety data sheet

Halliburton Energy Services

Halliburton House, Howemoss Place

Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN

United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

**Emergency telephone number** 

+44 1224 795277 or +1 281 575 5000

+44 1224 /952// 01 +1 281 5/5 5000				
Emergency telephone §45 - (EC)1272/2008				
Europe	112			
Denmark	Poison Control Hotline (DK): +45 82 12 12 12			
France	ORFILA (FR): + 01 45 42 59 59			
Germany	Poison Center Berlin (DE): +49 030 30686 790			
Italy	Poison Center, Milan (IT): +39 02 6610 1029			
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)			
Norway	Poisons Information (NO):+ 47 22 591300			
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97			
Spain	Poison Information Service (ES): +34 91 562 04 20			
United Kingdom	NHS Direct (UK): +44 0845 46 47			

# 2. HAZARDS IDENTIFICATION

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

Skin Corrosion / irritation	Category 2- H315
Serious Eye Damage / Eye Irritation	Category 2- H319

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

2. HAZARDS IDENTIFICATION

Classification Xn - Harmful.

Risk Phrases R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

#### **Label Elements**

#### **Hazard Pictograms**



Signal Word Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

#### **Contains**

SubstancesCAS NumberFatty acid etherProprietary

#### Precautionary Statements - EU (§28, 1272/2008)

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

#### Other Hazards

None known

# 3. COMPOSITION/INFORMATION ON INGREDIENTS Substances EINECS CAS Number PERCENT EEC EU - CLP Substance REACH No.

Substances	EINECS	CAS Number	PERCENT	EEC	EU - CLP Substance	REACH No.
				Classification	Classification	
Fatty acid ether	Not Listed	Proprietary	60 - 100%	Xi; R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES

#### Description of first aid measures

Inhalation

If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

4. FIRST AID MEASURES

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.

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

**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.

#### Most Important symptoms and effects, both acute and delayed

May cause eye and skin irritation.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

#### 5. FIREFIGHTING MEASURES

# Extinguishing mediaó

#### **Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

#### Special hazards arising from the substance of mixture

#### **Special Exposure Hazards**

Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways.

#### Advice for firefighters

#### **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 precautions, protective equipment and emergency procedures

Use appropriate protective equipment.

See Section 12 for additional information

#### **Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

#### Methods and material for containment and cleaning up

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

#### Reference to other sections

See Section 12 for additional information.

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Avoid contact with eyes, skin, or clothing. Wash hands after use. Launder contaminated clothing before reuse.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

#### Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store away from alkalis. Store in a cool, dry location. Keep container closed when not in use.

Specific End Use(s)

Exposure Scenario

Other Guidelines

No information available
No information available

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Fatty acid ether	Not applicable				

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Fatty acid ether	Not applicable				

**Derived No Effect Level (DNEL)**No information available.
Predicted No Effect Concentration
No information available.

(PNEC)

**Exposure controls** 

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

Personal protective equipment

**Respiratory Protection** Organic vapor respirator.

Not normally needed. But if significant exposures are possible then the following respirator

is recommended:

**Hand Protection** Impervious rubber gloves. Use Viton or 4H 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.

Environmental Exposure Controls No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid Color: Brown

Odor: Characteristic Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ Method pH: 2 - 3

Melting Point/Range No data available

Freezing Point/Range (C):

Boiling Point/Range

No data available
118°C

Flash Point > 100°C

**PMCC** 

Evaporation rateNo data availableVapor PressureNo data availableVapor DensityNo data available

Specific Gravity 1.0

**Water Solubility** Soluble in water Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available No data available **Autoignition Temperature Decomposition Temperature** No data available **Viscosity** No data available No information available **Explosive Properties** No information available **Oxidizing Properties** 

Other information

VOC Content (%) No data available

#### 10. STABILITY AND REACTIVITY

Reactivity

Not applicable

**Chemical Stability** 

Stable

**Possibility of Hazardous Reactions** 

Will Not Occur

**Conditions to Avoid** 

None anticipated

**Incompatible Materials** 

Strong oxidizers. Strong alkalis.

# 10. STABILITY AND REACTIVITY

## **Hazardous Decomposition Products**

Toxic fumes. Carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

#### **Information on Toxicological Effects**

**Acute Toxicity** 

InhalationCauses moderate respiratory irritation.Eye ContactCauses moderate eye irritation.Skin ContactCauses moderate skin irritation.

**Ingestion** Irritation of the mouth, throat, and stomach.

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

are chronic health hazards.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Fatty acid ether	No data available	No data available	No data available

#### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

**Ecotoxicity Effects** 

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Fatty acid ether	No information available	No information available	No information available	No information available

# Persistence and degradability

Readily biodegradable

#### **Bioaccumulative potential**

No information available

#### Mobility in soil

No information available

# Results of PBT and vPvB assessment

No information available.

#### Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**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

#### 14. TRANSPORT INFORMATION

**IMDG/IMO** 

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

RID

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

**ADR** 

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

IATA/ICAO

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Not restricted Not applicable

Special Precautions for User None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

**International Inventories** 

EINECS Inventory This product, and all its components, complies with EINECS

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

**Canadian DSL Inventory** Product contains one or more components not listed on the inventory.

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

WGK 1: Low hazard to waters.

**Chemical Safety Assessment** 

No information available

# **16. OTHER INFORMATION**

## Full text of R-phrases referred to under Sections 2 and 3

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 29-Nov-2010 Revision Note Not applicable

# **16. OTHER INFORMATION**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **Disclaimer Statement**

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**End of Safety Data Sheet**