# **HALLIBURTON**

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

# MORFLO E SURFACTANT

Revision Date: 17-Nov-2010 Revision Number: 8

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

**Product Identifier** 

Product Name MORFLO E SURFACTANT

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

Recommended Use Surfactant

Uses Advised Against No information available

# Details of the supplier of the safety data sheet

Halliburton Energy Services

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Kirkhill Industrial Estate

Dyce

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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

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 1 - (H314)
Serious Eye Damage / Eye Irritation	Category 1 - (H318)
Substances/mixtures corrosive to metal.	Category 1 - (H290)

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

## 2. HAZARDS IDENTIFICATION

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

**Classification** C - Corrosive.

Risk Phrases R34 Causes burns.

#### **Label Elements**

### **Hazard Pictograms**



Signal Word

Danger

#### **Hazard Statements**

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H290 - May be corrosive to metals

# Contains

SubstancesCAS NumberAlkybenzene sulfonic acid85536-14-7

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

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P280 - Wear eye protection/face protection

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

P310 - Immediately call a POISON CENTER or doctor/physician

P390 - Absorb spillage to prevent material damage

### **Other Hazards**

None known

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Alkybenzene sulfonic acid	287-494-3	85536-14-7	10 - 30%	C; R34	Skin Corr. 1B (H314)	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 to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

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. 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

pefore reuse.

**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. May cause headache, dizziness, and other central nervous system effects.

#### 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.

Skin

### Special hazards arising from the substance of mixture

**Special Exposure Hazards** 

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. Neutralize to pH of 6-8. 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. Avoid breathing vapors. 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 alkalis. Store in a cool well ventilated area. Keep container closed when not in use.

Specific End Use(s)

Exposure Scenario No information available

# Other Guidelines No information available

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Alkybenzene sulfonic acid	Not applicable				

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Alkybenzene sulfonic acid	Not applicable				

Derived No Effect Level (DNEL)
Predicted No Effect Concentration

No information available.

(PNEC)

**Exposure controls** 

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good

cross ventilation.

Personal protective equipment

**Respiratory Protection** Acid gas respirator.

Hand Protection Polyvinylchloride gloves.

**Skin Protection** Full protective chemical resistant clothing.

**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: Red

Odor: Mild acrid Odor Threshold: No information available

Property Values

Remarks/ Method

**pH**: 1.5

Melting Point/RangeNo data availableFreezing Point/Range (C):No data available

Boiling Point/Range 100°C

Flash Point
Evaporation rate
Vapor Pressure
Vapor Density
No data available
No data available
No data available
No data available

Specific Gravity

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

Oxidizing Properties No information available

VOC Content (%) No data available

# 10. STABILITY AND REACTIVITY

Reactivity
Not applicable
Chamical Stability

Other information

**Chemical Stability** 

Stable

**Possibility of Hazardous Reactions** 

## 10. STABILITY AND REACTIVITY

Will Not Occur

**Conditions to Avoid** 

None anticipated

**Incompatible Materials** 

Contact with water. Metal salts such as aluminum chloride. Strong alkalis.

**Hazardous Decomposition Products** 

Oxides of sulfur. Carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

**Acute Toxicity** 

**Inhalation** Causes severe respiratory irritation.

**Eye Contact** May cause eye burns. **Skin Contact** Causes severe burns.

**Ingestion** Causes burns of the mouth, throat and stomach.

Chronic Effects/Carcinogenicity Prolonged, excessive exposure may cause erosion of the teeth.

**LD50 Oral:** 1219 mg/kg (rat)

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkybenzene sulfonic acid	1219 mg/kg	No data available	No data available

Test species: Rat

# 12. ECOLOGICAL INFORMATION

## **Toxicity**

**Ecotoxicity Effects** 

Substances	Toxicity to Algae	Toxicity to Fish	<b>Toxicity to Microorganisms</b>	Daphnia Magna (Water
				Flea)
Alkybenzene sulfonic acid	No information available	TLM96: 25 mg/l (Golden	No information available	TLM48: 136 mg/l (Daphnia
•		orfe)		magna)

### Persistence and degradability

No information available

# **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.

## 13. DISPOSAL CONSIDERATIONS

Contaminated Packaging Follow all applicable national or local regulations.

### 14. TRANSPORT INFORMATION

IMDG/IMO

UN Number: UN3264,

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

Transport Hazard Class(es): , 8
Packing Group: , |||

EMS: EmS F-A, S-B

**RID** 

UN Number: UN3264,

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

Transport Hazard Class(es): , 8 Packing Group: , III

**ADR** 

UN Number: UN3264,

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

Transport Hazard Class(es): , 8 Packing Group: , III

IATA/ICAO

UN Number: UN3264,

**UN Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

Transport Hazard Class(es): , 8 Packing Group: , 8

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
Canadian DSL Inventory
All components listed on inventory or are exempt.
All components listed on inventory or are exempt.

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 2: Hazard to waters.

**Chemical Safety Assessment** 

No information available

### **16. OTHER INFORMATION**

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

R34 Causes burns.

# 16. OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H314 - Causes severe skin burns and eye damage

## Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 17-Nov-2010 Revision Note 17-Nov-2010 Not applicable

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**