# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: Foamer 1026

Revision Date: 30-Jan-2014

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** Foamer 1026

Synonyms: None

Chemical Family:Surfactant BlendApplication:Foam Stabilizer

Manufacturer/Supplier Halliburton Energy Services

P.O. Box 1431

Duncan, Oklahoma 73536-0431

Emergency Telephone: (281) 575-5000

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)	<b>ACGIH TLV-TWA</b>	OSHA PEL-TWA
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	30 - 60%	Not applicable	Not applicable
Hexylene glycol	107-41-5	10 - 30%	25 ppm	Not applicable
Cocobetaine	61789-40-0	5 - 10%	Not applicable	Not applicable
Alcohols, C6-10, ethoxylated	70879-83-3	1 - 5%	Not applicable	Not applicable

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause severe eye irritation. May cause skin and respiratory irritation. May

cause headache, dizziness, and other central nervous system effects. May be harmful if swallowed. Repeated overexposure may cause liver and kidney effects.

### 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. 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** If swallowed, do NOT induce vomiting. Give victim two glasses of water, Call a

physician immediately. Never give anything by mouth to an unconscious person.

Notes to Physician Not Applicable

### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): > 209
Flash Point/Range (C): > 99
Flash Point Method: TCC

Autoignition Temperature (F):

Autoignition Temperature (C):

Flammability Limits in Air - Lower (%):

Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

Fire Extinguishing Media Water fog, carbon dioxide, foam, dry chemical.

**Special Exposure Hazards**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.

NFPA Ratings: Health 2, Flammability 1, Reactivity 0
HMIS Ratings: Health 2, Flammability 1, Reactivity 0

# 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary** 

**Measures** 

Use appropriate protective equipment. Wear self-contained breathing apparatus in

enclosed areas.

**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. Ground and bond

containers when transferring from one container to another.

**Storage Information** Keep container closed when not in use. Store away from oxidizers. Store at

temperatures below 140 F (60 C). Product has a shelf life of 24 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 Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Organic vapor respirator.

**Hand Protection** Impervious rubber gloves.

Foamer 1026 Page 2 of 6 **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 to Light yellow Amber

 Odor:
 Sweet

 pH:
 6-8 (5%)

 Specific Gravity @ 20 C (Water=1):
 1.08

 Density @ 20 C (lbs./gallon):
 9.0

 Bulk Density @ 20 C (lbs/ft3):
 67.4

Boiling Point/Range (F):

Boiling Point/Range (C):

Not Determined

Freezing Point/Range (F): Not Determined Max: < 45

Freezing Point/Range (C):

Vapor Pressure @ 20 C (mmHg):

Not Determined

Not Determined

Vapor Density (Air=1): > 1
Percent Volatiles: 36-42

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

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

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 severe eye irritation.

**Skin Contact** May cause skin irritation. May cause skin defatting with prolonged exposure.

Ingestion May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and central

nervous system depression.

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
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	> 2,000 mg/kg (Rat) (similar substance)	> 2,000 mg/kg (Rat) (similar substance)	No data available
Hexylene glycol	107-41-5	3692 mg/kg (Rat) > 1,400 mg/kg (Rat) (similar substance)	8560 μL/kg(Rabbit)	310 mg/m³(Rat)1 h
Cocobetaine	61789-40-0	4900 mg/kg (Rat)	> 2000 (Rat)	No data available
Alcohols, C6-10, ethoxylated	70879-83-3	No data available	No data available	No data available

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicological Information**

**Ecotoxicity Product** 

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

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Polyethylene glycol (C6-C10) alkyl ether, sulfate ammonium salt	68037-05-8	No information available	No information available	No information available	No information available
Hexylene glycol	107-41-5	No information available	96 Hr LC50 Pimephales promelas: 10500 - 11000 mg; 96 Hr LC50 Lepomis macrochirus: 10000 mg/L		EC50: 2700 - 3700 mg/L
Cocobetaine	61789-40-0	No information available	96 Hr LC50 Brachydanio rerio: 1.0 - 10.0 mg/L	No information available	EC50: 6.5 mg/L
Alcohols, C6-10, ethoxylated	70879-83-3	No information available	No information available	No information available	No information available

# 12.2 Persistence and degradability

No information available

#### 12.3 Bioaccumulative potential

Substances	Log Pow
Hexylene glycol	<0.14

### 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**

DOT

Not restricted

**Canadian TDG** 

Not restricted

**ADR** 

Not restricted

# **Air Transportation**

ICAO/IATA

Not restricted

# Sea Transportation

**IMDG** 

Not restricted

# **Other Transportation Information**

Labels: None

### 15. REGULATORY INFORMATION

### **US Regulations**

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

EPA SARA Title III Extremely

**Hazardous Substances** 

Not applicable

EPA SARA (311,312) Hazard

Class

Acute Health Hazard

EPA SARA (313) Chemicals This product does not contain a toxic chemical for routine annual "Toxic Chemical

Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund Reportable Spill Quantity

Not applicable.

**EPA RCRA Hazardous Waste** 

Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste

as defined by the US EPA.

**California Proposition 65** All components listed do not apply to the California Proposition 65 Regulation.

MA Right-to-Know Law One or more components listed.

Foamer 1026 Page 5 of 6 NJ Right-to-Know Law One or more components listed.

PA Right-to-Know Law One or more components listed.

**Canadian Regulations** 

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

WHMIS Hazard Class D2B Toxic Materials

E Corrosive Material

# 16. OTHER INFORMATION

# The following sections have been revised since the last issue of this SDS

Not applicable

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\*\*\*