#### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: FOAMER 450 WINTERIZED

Revision Date: 04-Jan-2011

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: FOAMER 450 WINTERIZED

Synonyms: None Chemical Family: Blend

**Application:** Foaming Agent

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

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	<b>ACGIH TLV-TWA</b>	OSHA PEL-TWA
Methanol	67-56-1	10 - 30%	200 ppm (S)	200 ppm
Ethylene glycol monobutyl ether	111-76-2	10 - 30%	20 ppm	50 ppm

#### 3. HAZARDS IDENTIFICATION

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

other central nervous system effects. May be fatal if swallowed. May cause blindness. May be absorbed through the skin. Repeated overexposure may cause

liver and kidney effects. May cause birth defects. Combustible.

#### 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** If swallowed, induce vomiting immediately by giving two glasses of water and sticking

fingers down throat; never give anything to an unconscious person. Get medical

attention.

Notes to Physician Not Applicable

#### **FIRE FIGHTING MEASURES**

Flash Point/Range (F): 106 Flash Point/Range (C): 41 **Flash Point Method: PMCC** 

**Autoignition Temperature (F):** Not Determined **Autoignition Temperature (C):** Not Determined

Flammability Limits in Air - Lower (%): 2.2 Flammability Limits in Air - Upper (%): 36

Fire Extinguishing Media Carbon Dioxide, Dry Chemicals, Foam.

**Special Exposure Hazards** Use water spray to cool fire exposed surfaces. Closed containers may explode in

fire. Decomposition in fire may produce toxic gases.

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

**NFPA Ratings:** Health 3, Flammability 2, Reactivity 0 **HMIS Ratings:** Health 3, Flammability 2, Reactivity 0

## **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. Remove ignition sources and work with nonsparking tools. Contain spill with sand or other inert materials. Scoop up and

remove.

# HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after

use. Launder contaminated clothing before reuse.

Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container **Storage Information** 

closed when not in use.

# **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Use in a well ventilated area. Local exhaust ventilation should be used in areas **Engineering Controls** 

without good cross ventilation.

**Respiratory Protection** Organic vapor respirator.

Positive pressure self-contained breathing apparatus if methanol is released.

**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

Physical State:LiquidColor:Light redOdor:Alcohol

Not Determined Specific Gravity @ 20 C (Water=1): Not Determined Density @ 20 C (lbs./gallon): Not Determined Bulk Density @ 20 C (lbs/ft3): Not Determined **Boiling Point/Range (F):** Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (F): Not Determined Freezing Point/Range (C): 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): Soluble

Solubility in Solvents (g/100ml):

Not Determined VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Not Determined Viscosity, Kinematic @ 20 C (centistrokes):

Not Determined Partition Coefficient/n-Octanol/Water:

Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined

#### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

**Conditions to Avoid** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

## 11. TOXICOLOGICAL INFORMATION

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

**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 cause skin irritation. May be absorbed through the skin and contribute to the

symptoms listed under ingestion.

**Eye Contact** May cause eye irritation.

**Ingestion** May be fatal or cause blindness if swallowed. 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.

Aggravated Medical Conditions Skin disorders. Eye ailments.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart,

central nervous system and spleen damage. Prolonged or repeated exposure may

cause embryo and fetus toxicity.

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 /

Not determined

**Developmental Toxicity:** 

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

# **Ecotoxicological Information**

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

#### DOT

UN1993, Flammable Liquid, N.O.S. (Contains Methanol, Butyl Cellosolve), 3, III, (41.1 C) NAERG 128

#### **Canadian TDG**

Flammable Liquid, N.O.S.(Contains Methanol, Butyl Cellosolve), 3, UN1993, III, (41.1 C)

#### **ADR**

UN1993, Flammable Liquid, N.O.S. (Contains Methanol, Butyl Cellosolve), 3, III

# **Air Transportation**

#### ICAO/IATA

UN1993, Flammable Liquid, N.O.S., 3, III (Contains Methanol, Butyl Cellosolve Solution)

# Sea Transportation

**IMDG** 

UN1993, Flammable Liquid, N.O.S. (Contains Methanol, Butyl Cellosolve), 3, III, (41.1 C) EmS F-E, S-E

# Other Shipping Information

Labels: Flammable Liquid

#### REGULATORY INFORMATION

**US Regulations** 

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

**EPA SARA Title III Extremely Hazardous Substances** 

Not applicable

**EPA SARA (311,312) Hazard** Class

Acute Health Hazard Chronic Health Hazard

Fire Hazard

**EPA SARA (313) Chemicals** 

This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:

Ethoxylated Nonylphenol (9016-45-9)

Methanol//67-56-1 Glycol Ethers//111-76-2

**EPA CERCLA/Superfund** Reportable Spill Quantity EPA Reportable Spill Quantity is 5790 Gallons based on Methanol (CAS: 67-56-1)

**EPA RCRA Hazardous Waste** 

Classification

If product becomes a waste, it does meet the criteria of a hazardous waste as

defined by the US EPA, because of:

Ignitability D001

**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.

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

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

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# **Canadian Regulations**

Canadian DSL Inventory All components listed on inventory.

WHMIS Hazard Class

B3 Combustible Liquids
D1A Very Toxic Materials

D2B Toxic Materials

## 16. OTHER INFORMATION

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

Not applicable

**Additional Information** For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Material Safety Data Sheet for this or other Halliburton

products, contact Chemical Compliance at 1-580-251-4335.

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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\*\*\*