#### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: Anti-Sludging Agent No.1

Revision Date: 03-Jan-2013

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** Anti-Sludging Agent No.1

Synonyms: None Chemical Family: Blend

Application: Anti-sludging 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
Alkyl sulfonate salt	12068-08-5	30 - 60%	Not applicable	Not applicable
Morpholine	110-91-8	1 - 5%	20 ppm	20 ppm
Ethoxylated Alcohol		30 - 60%	Not applicable	Not applicable
Methanol	67-56-1	5 - 10%	200 ppm (S)	200 ppm

#### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory burns. 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. Flammable.

# 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** Remove contaminated clothing and launder before reuse. In case of contact,

immediately flush skin with plenty of soap and water for at least 15 minutes. 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.

**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

#### **FIRE FIGHTING MEASURES**

Flash Point/Range (F): 90 Flash Point/Range (C): 32 **Flash Point Method: PMCC** 

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

Flammability Limits in Air - Lower (%): 6.7 Flammability Limits in Air - Upper (%): 36

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

**Special Exposure Hazards** May be ignited by heat, sparks or flames. 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 3, Reactivity 0 Health 0, Flammability 3, Reactivity 3 **HMIS Ratings:** 

## 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

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

use. Launder contaminated clothing before reuse. Ground and bond containers

when transferring from one container to another.

**Storage Information** Store away from oxidizers. Store in a cool well ventilated area. Keep container

closed when not in use.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

without good cross ventilation.

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

**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.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid Color: Clear amber Odor: Strong 7.1 Specific Gravity @ 20 C (Water=1): 1.04 Density @ 20 C (lbs./gallon): 8.66

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): 190

Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **Evaporation Rate (Butyl Acetate=1):** Not Determined Solubility in Water (g/100ml): **Disperses** Solubility in Solvents (g/100ml): Not Determined VOCs (lbs./gallon): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistokes): Not Determined

Partition Coefficient/n-Octanol/Water: 0.61

Molecular Weight (g/mole): Not Determined

#### 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** 

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

**Additional Guidelines** Not Applicable

# TOXICOLOGICAL INFORMATION

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

May cause central nervous system depression including headache, dizziness, Inhalation

drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and

unconsciousness.

Causes severe respiratory irritation.

**Skin Contact** May cause skin burns. May be absorbed through the skin and contribute to the

symptoms listed under ingestion.

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

May be fatal or cause blindness if swallowed. Causes burns of the mouth, throat and Ingestion

> stomach. 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** Eye ailments. Skin disorders. Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause eye, blood, lung, liver, kidney, heart,

central nervous system and spleen damage. May contain ethylene oxide in the headspace of the drum. Ethylene oxide is a cancer and reproductive hazard.

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 / Developmental Toxicity:

Not determined

## 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: TLM96: 10-33 ppm (Crangon crangon)

Acute Algae Toxicity: Not determined

Chemical Fate InformationNot determinedOther InformationNot 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

UN2924, Flammable Liquid, Corrosive, N.O.S. (Contains Methanol, Morpholine), 3, (8), III, (32.2 C) NAERG 132

#### **Canadian TDG**

Flammable Liquid, Corrosive, N.O.S. (Contains Methanol, Morpholine), 3, (8), UN2924, III, (32.2 C)

#### **ADR**

UN2924, Flammable Liquid, Corrosive, N.O.S. (Contains Methanol, Morpholine), 3, (8), III

#### Air Transportation

#### ICAO/IATA

UN2924, Flammable Liquid, Corrosive, N.O.S., 3, (8), III (Contains Methanol, Morpholine)

#### Sea Transportation

#### **IMDG**

UN2924, Flammable Liquid, Corrosive, N.O.S. (Contains Methanol, Morpholine), 3, (8), III, (32.2 C) EmS F-I, S-S

# Other Transportation Information

Labels: Flammable Liquid

Corrosive

## 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 Chronic Health Hazard

Fire Hazard

Methanol//67-56-1 **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:

**EPA CERCLA/Superfund** Reportable Spill Quantity EPA Reportable Spill Quantity is 8325 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 or are exempt.

WHMIS Hazard Class

B2 Flammable Liquids

F. Corrective Meterial

E Corrosive Material D1A Very 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\*\*\*