## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: **EZ-MUD**®

Revision Date: 02-Dec-2013

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: EZ-MUD® Synonyms: None Chemical Family: Blend

Application: Shale Inhibitor

Manufacturer/Supplier Baroid Fluid Services

Product Service Line of Halliburton

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

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
Hydrotreated light petroleum	64742-47-8	10 - 30%	Not applicable	Not applicable
distillate				

## 3. HAZARDS IDENTIFICATION

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

and other central nervous system effects. May be harmful if swallowed.

## 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 shoes and discard.

Eyes In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

**Ingestion** Get medical attention! If vomiting occurs, keep head lower than hips to prevent

aspiration.

Notes to Physician Not Applicable

## 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): > 200

Flash Point/Range (C): Not Determined

Flash Point Method: PMCC
Autoignition Temperature (F): > 392
Autoignition Temperature (C): > 200

Flammability Limits in Air - Lower (%):

Not Determined
Not Determined

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

**Special Exposure Hazards** Decomposition in fire may produce toxic gases. Use water spray to cool fire

exposed surfaces.

**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, Physical Hazard 0, PPE: B

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary** 

Measures

Use appropriate protective equipment.

**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.

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls A well ventilated area to control dust levels. Local exhaust ventilation should be

used in areas without good cross ventilation.

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures,

the selection and proper use of personal protective equipment should be

determined by an industrial hygienist or other qualified professional based on the

specific application of this product.

Respiratory Protection Organic vapor respirator with a dust/mist filter. (A2P2/P3) In high concentrations,

supplied air respirator or a self-contained breathing apparatus.

**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: Liquid

Color: White to gray
Odor: Mild hydrocarbon

 pH:
 6-8

 Specific Gravity @ 20 C (Water=1):
 1.0

 Density @ 20 C (lbs./gallon):
 8.3

Bulk Density @ 20 C (lbs/ft3): Not Determined

Boiling Point/Range (F): 347 Boiling Point/Range (C): 175

Freezing Point/Range (F):

Freezing Point/Range (C):

Not Determined

Not Determined

Vapor Pressure @ 20 C (mmHg): 0.002

Vapor Density (Air=1): Not Determined

Percent Volatiles: 70
Evaporation Rate (Butyl Acetate=1): < 1

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partially soluble

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** 

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

Additional Guidelines Not Applicable

## 11. TOXICOLOGICAL INFORMATION

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

Sympotoms related to exposure

**Acute Toxicity** 

InhalationMay cause mild respiratory irritation.Eye ContactMay cause mild eye irritation.Skin ContactMay cause mild skin irritation.

Ingestion Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty

breathing, wheezing, coughing up blood and pneumonia, which can be fatal. 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.

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

health hazards.

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrotreated light petroleum distillate	64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	5.2 mg/L (Rat) 4 h

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicological Information**

**Ecotoxicity Product** 

Acute Fish Toxicity: TLM96: >1000 mg/l (Pimephales promelas)

Acute Crustaceans Toxicity: TLM48: 98 mg/l (Acartia tonsa)

Acute Algae Toxicity: EC50: 16.70 mg/l (Skeletonema costatum)

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Hydrotreated light petroleum distillate	64742-47-8	EC50(72h): > 10,000 mg/L (Skeletonema costatum) (ISO 10253)	LC50 96h): > 10,000 mg/L (Scophthalmus maximus) (OSPARCOM 1995)		LC50(48h): > 10,000 mg/L (Acartia tonsa) (ISO 14669)

### 12.2 Persistence and degradability

No information available

#### 12.3 Bioaccumulative potential

Substances	Log Pow
Hydrotreated light petroleum distillate	7.5

### 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 Does not apply.

NJ Right-to-Know Law Does not apply.

PA Right-to-Know Law Does not apply.

**Canadian Regulations** 

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

WHMIS Hazard Class D2B Toxic Materials

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## 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.

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\*\*\*END OF MSDS\*\*\*