## **HALLIBURTON**

# **MATERIAL SAFETY DATA SHEET**

Product Trade Name: D-AIR 2

Revision Date: 04-Jan-2011

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: D-AIR 2 Synonyms: None

Chemical Family:Polyethylene glycolApplication:Antifoam 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

e-mail: fdunexchem@halliburton.com

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Polypropylene glycol	25322-69-4	60 - 100%	Not applicable	Not applicable

#### 3. HAZARDS IDENTIFICATION

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

## 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation

develops or if breathing becomes difficult.

**Skin** Wash with soap and water. Get medical attention if irritation persists.

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** Under normal conditions, first aid procedures are not required.

Notes to Physician Not Applicable

#### FIRE FIGHTING MEASURES

Flash Point/Range (F): Not DeterminedMin: > 300 Flash Point/Range (C): Not DeterminedMin: > 148

**Flash Point Method: PMCC Autoignition Temperature (F):** 700 **Autoignition Temperature (C):** 371 Flammability Limits in Air - Lower (%): 2.6 Flammability Limits in Air - Upper (%): 12.5

Fire Extinguishing Media Water fog, carbon dioxide, foam, dry chemical. **Special Exposure Hazards** 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.

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

#### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment.

**Environmental Precautionary** 

Measures

None known.

**Procedure for Cleaning /** 

**Absorption** 

Isolate spill and stop leak where safe. 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.

**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.

**Respiratory Protection** Organic vapor respirator.

**Hand Protection** Impervious rubber gloves.

Skin Protection Normal work coveralls.

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

**Other Precautions** None known.

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

Color: Clear colorless

Odor: Bland

pH: Not Determined

Specific Gravity @ 20 C (Water=1): 1.01

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Density @ 20 C (lbs./gallon): 8.41

Bulk Density @ 20 C (lbs/ft3):Not DeterminedBoiling Point/Range (F):Not DeterminedBoiling Point/Range (C):Not Determined

Freezing Point/Range (F): -35
Freezing Point/Range (C): -37
Vapor Pressure @ 20 C (mmHg): < 0.1
Vapor Density (Air=1): > 1
Percent Volatiles: < 1

Evaporation Rate (Butyl Acetate=1):

Solubility in Water (g/100ml):

Not Determined
Insoluble

Solubility in Water (g/100ml):

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Not Determined

Not Determined

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistrokes):

Partition Coefficient/n-Octanol/Water:

Not Determined

Not Determined

Molecular Weight (g/mole): > 600

#### 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** 

Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

## 11. TOXICOLOGICAL INFORMATION

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

**Inhalation** None known.

**Skin Contact** May cause mild skin irritation.

**Eye Contact** May cause mild eye irritation.

**Ingestion** None known

Aggravated Medical Conditions None known.

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

chronic health hazards.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: LD50: 419 mg/kg (Rat)

**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 Resistant

**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

Not restricted

#### **Canadian TDG**

Not restricted

**ADR** 

Not restricted

## **Air Transportation**

ICAO/IATA

Not restricted

# **Sea Transportation**

**IMDG** 

Not restricted

# Other Shipping 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** 

None

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.

WHMIS Hazard Class Un-Controlled

#### 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 guestions about the Material Safety Data Sheet for this or other Halliburton

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

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