## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: AQUA-CLEAR® PFD DRY

Revision Date: 04-May-2011

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: AQUA-CLEAR® PFD DRY

Synonyms: None

**Chemical Family:** Anionic Polymer **Application:** Dispersant

Manufacturer/Supplier Baroid Fluid Services

a Product Service Line of Halliburton Energy Services, Inc.

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	ACGIH TLV-TWA	OSHA PEL-TWA
Contains no hazardous	Mixture	60 - 100%	Not applicable	Not applicable
substances				

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and respiratory 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 Determined Flash Point/Range (C): Not Determined **Flash Point Method:** Not Determined **Autoignition Temperature (F):** Not Determined **Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (%): Not Determined Flammability Limits in Air - Upper (%): Not Determined

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

**Special Exposure Hazards** Decomposition in fire may produce toxic gases. Organic dust in the presence of an

ignition source can be explosive in high concentrations. Good housekeeping

practices are required to minimize this potential.

Fire-Fighters

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

fire fighting personnel.

**NFPA Ratings:** Health 1, Flammability 1, Reactivity 0 Health 1, Flammability 1, Physical Hazard 0 **HMIS Ratings:** 

## ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

**Measures** 

Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning /** 

**Absorption** 

Do NOT spread spilled product with water. Scoop up and remove. Flush area with

water.

#### HANDLING AND STORAGE

**Handling Precautions** Slippery when wet. Avoid creating or inhaling dust.

**Storage Information** Store in a dry location. Store away from oxidizers. Use good housekeeping in

storage and work areas to prevent accumulation of dust. Close container when not in use. Store at temperatures between 40 and 90 F (5 and 35 C). Product has a

shelf life of 36 months.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Use in a well ventilated area. **Engineering Controls** 

**Respiratory Protection** If engineering controls and work practices cannot keep exposure below occupational

> exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should

be performed by an Industrial Hygienist or other qualified professional.

Not normally needed. But if significant exposures are possible then the following

respirator is recommended: Dust/mist respirator. (95%)

**Hand Protection** Rubber gloves. Skin Protection Rubber apron.

**Eye Protection** Wear safety glasses or goggles to protect against exposure. Do NOT wear contact

lenses.

None known. **Other Precautions** 

## PHYSICAL AND CHEMICAL PROPERTIES

Granules **Physical State:** White Color: Odor: Odorless 4-9 (5g/l) pH: Specific Gravity @ 20 C (Water=1): 8.0

Not Determined

Density @ 20 C (lbs./gallon): Bulk Density @ 20 C (lbs/ft3): 50

Not Determined **Boiling Point/Range (F):** Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (F): 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): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistrokes): Not Determined

Partition Coefficient/n-Octanol/Water:

Not Determined Molecular Weight (g/mole):

## STABILITY AND REACTIVITY

Stable **Stability Data:** 

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid** None known.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide. Oxides of nitrogen.

**Additional Guidelines** Not Applicable

## TOXICOLOGICAL INFORMATION

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

Inhalation May cause respiratory irritation.

**Skin Contact** Prolonged or repeated contact may cause slight skin irritation.

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

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: 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 readily biodegradable.

**Bio-accumulation** Will not bio-accumulate.

# **Ecotoxicological Information**

Acute Fish Toxicity: LC50:(96 hour) >100 mg/l (Brachidanio rerio) Acute Crustaceans Toxicity:EC50: (48 hour) >100 mg/l (Daphnia magna)

Acute Algae Toxicity: IC50 (72 hour): > 100 mg/l Scenedesmus subspicatus

Chemical Fate InformationNot determinedOther InformationNot applicable

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method**Bury in a licensed landfill according to 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

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** The California Proposition 65 regulations apply to this product.

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.

**Canadian Regulations** 

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

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 questions about the Material Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

#### **Disclaimer Statement**

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