# HALLIBURTON

# **MATERIAL SAFETY DATA SHEET**

# Product Trade Name: AQUA-CLEAR® PFD

Revision Date:

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

04-Oct-2013

Product Trade Name: Synonyms: Chemical Family: Application:	AQUA-CLEAR® PFD None Blend Additive
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)	ACGIH TLV-TWA	OSHA PEL-TWA
Contains no hazardous	Mixture	60 - 100%	Not applicable	Not applicable
substances				

# 3. HAZARDS IDENTIFICATION

May cause eye irritation.

### 4. FIRST AID MEASURES

**Hazard Overview** 

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

# 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): Flash Point/Range (C): Flash Point Method: Autoignition Temperature (F): Autoignition Temperature (C): Flammability Limits in Air - Low Flammability Limits in Air - Upp		Not Determined Min: > 212 Not Determined Min: > 100 COC Not Determined Not Determined Not Determined Not Determined
Fire Extinguishing Media	Carbon Dioxide, Dry Chemicals, Foam.	
Special Exposure Hazards	Decomposition in fire may produce toxic gases. Spills produce extremely slippery surfaces.	
Special Protective Equipment for Fire-Fighters	Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.	
NFPA Ratings: HMIS Ratings:	Health 1, Flammability 1, Reactivity 0 Health 1, Flammability 0, Physical Hazard 0 , PPE: B	

# 6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures	Use appropriate protective equipment. Spills of this product are very slippery.	
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 STOR	AGE	
Handling Precautions	Avoid contact with eyes, skin, or clothing. Wash hands after use.	

Storage InformationStore away from oxidizers. Store in a cool, dry location. Product has a shelf life of<br/>36 months.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use in a well ventilated area.
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	Not normally necessary.
Hand Protection	Impervious rubber gloves.
Skin Protection	Normal work coveralls.
Eye Protection	Safety glasses.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:SlipH:7-Specific Gravity @ 20 C (Water=1):1.3Density @ 20 C (Ibs./gallon):10Bulk Density @ 20 C (Ibs./ft3):NoBoiling Point/Range (F):NoBoiling Point/Range (C):NoFreezing Point/Range (C):NoFreezing Point/Range (C):NoVapor Pressure @ 20 C (mmHg):NoVapor Density (Air=1):NoPercent Volatiles:~5Evaporation Rate (Butyl Acetate=1):NoSolubility in Water (g/100ml):NoVOCs (Ibs./gallon):No	0.8 ot Determined ot Determined ot Determined ot Determined ot Determined ot Determined 55 ot Determined oluble ot Determined ot Determined ot Determined
Viscosity, Dynamic @ 20 C (centipoise):10Viscosity, Kinematic @ 20 C (centistokes):NoPartition Coefficient/n-Octanol/Water:No	ot Determined 00-400 (77F) ot Determined ot Determined ot Determined

# 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	of Ex	posure
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Eye or skin contact, inhalation.

#### Sympotoms related to exposure

Acute Toxicity	
Inhalation	May cause respiratory irritation.
Eye Contact	May cause mild eye irritation.
Skin Contact	Prolonged or repeated contact may cause slight skin irritation.
Ingestion	Swallowing a relatively large amount of this material is unlikely to produce serious illness or death.
Chronic Effects/Carcinogenicity	No data available to indicate product or components present at greater than 1% are chronic health hazards.

#### LD50 Oral:

> 2000 mg/kg; (rat)

#### Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Contains no hazardous substances	Mixture	No data available	No data available	No data available

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicological Information**

#### Ecotoxicity Product

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: Not determined

#### Ecotoxicity Substance

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Contains no hazardous substances	Mixture	No information available	No information available	No information available	No information available

#### 12.2 Persistence and degradability

Not readily biodegradable

#### 12.3 Bioaccumulative potential

Bioaccumulation is unlikely

#### 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:

# 15. REGULATORY INFORMATION

None

### **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 or are exempt.	
WHMIS Hazard Class	Un-Controlled	

### **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.		
Disclaimer Statement	This information is furnished without warranty, expressed or implied, as to accuracy 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\*\*\*