## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: BARAZAN® PLUS

Revision Date: 20-Dec-2012

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: BARAZAN® PLUS

Synonyms: None

Chemical Family: Polysaccharide Application: Viscosifier

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	ACGIH TLV-TWA	OSHA PEL-TWA
Xanthan gum	11138-66-2	60 - 100%	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

#### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye irritation. Airborne dust may be explosive.

## 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):** 400 **Autoignition Temperature (C):** 204

Not Determined Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (%): Not Determined

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

**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 0, Flammability 1, Reactivity 0 Health 0, Flammability 1, Reactivity 0 **HMIS Ratings:** 

## ACCIDENTAL RELEASE MEASURES

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

**Environmental Precautionary** 

**Measures** 

None known.

**Procedure for Cleaning /** 

**Absorption** 

Scoop up and remove.

#### HANDLING AND STORAGE

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

**Storage Information** Store away from oxidizers. Store in a cool, dry location.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

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

respirator is recommended:

Dust/mist respirator. (N95, P2/P3)

**Hand Protection** Normal work gloves.

Normal work coveralls. **Skin Protection** 

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

**Other Precautions** None known.

# PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid

Color: White to yellow

Odor: Slight 9. PHYSICAL AND CHEMICAL PROPERTIES

pH: 5.5-8.6 **Specific Gravity @ 20 C (Water=1):** 1.6

Density @ 20 C (lbs./gallon): Not Determined

Bulk Density @ 20 C (lbs/ft3): 52.4

Not Determined **Boiling Point/Range (F): Boiling Point/Range (C):** Not Determined Freezing Point/Range (F): Not Determined 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):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Not Determined

Not Determined

1,000,000

#### 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** May impede respiration.

**Skin Contact** None known.

**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: > 5000 mg/kg (Rat)

**Dermal Toxicity:** Not determined

Not determined **Inhalation Toxicity:** 

**Primary Irritation Effect:** Not determined

Carcinogenicity Not determined

**Genotoxicity:** Not determined

Reproductive /

Not determined **Developmental Toxicity:** 

## **ECOLOGICAL INFORMATION**

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability BOD(5 Day): 200 mg/g COD: 1600 mg/g

**Bio-accumulation** Not determined

# **Ecotoxicological Information**

**Acute Fish Toxicity:** TLM96: 320-560 ppm (Oncorhynchus mykiss) Acute Crustaceans Toxicity: TLM96: > 75000 ppm (Mysidopsis bahia)

Not determined **Acute Algae Toxicity:** 

**Chemical Fate Information** Not determined **Other Information** Not applicable

#### **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.

## 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** 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 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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the user.

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