HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: BARASORB

Revision Date: 03-Jan-2013

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: BARASORB

Synonyms: None

Chemical Family: Polysaccharide

Application: 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	ACGIH TLV-TWA	OSHA PEL-TWA	
Cellulose	9004-34-6	60 - 100%	10 mg/m ³	15 mg/m ³	

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.

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): 296

Not Determined

Flash Point Method: PMCC Autoignition Temperature (F): 450

Autoignition Temperature (C): Not Determined Flammability Limits in Air - Lower (%): Not Determined 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.

Flash Point/Range (C):

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.

Environmental Precautionary

Measures

None known.

Procedure for Cleaning /

Absorption

Scoop up and remove.

HANDLING AND STORAGE

Handling Precautions Avoid creating or inhaling dust.

Storage Information Store in a dry location. Product has a shelf life of 60 months.

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**

Eye Protection Safety glasses. **Other Precautions** None known.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Off white Color:

> **BARASORB** Page 2 of 6

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor: Odorless

pH: Not Determined

Specific Gravity @ 20 C (Water=1): 1.4

Density @ 20 C (lbs./gallon): 11.68

Bulk Density @ 20 C (lbs/ft3):

Boiling Point/Range (F):

Boiling Point/Range (C):

Not Determined

Not Determined

Freezing Point/Range (F): 500-518

Freezing Point/Range (C): Not Determined

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1): Not Determined

Percent Volatiles: 0

Evaporation Rate (Butyl Acetate=1):Solubility in Water (g/100ml):

Not Determined Insoluble

Solubility in Solvents (g/100ml):

Not Determined VOCs (lbs./gallon):

Not Determined Viscosity, Dynamic @ 20 C (centipoise):

Not Determined Viscosity, Kinematic @ 20 C (centistokes):

Not Determined Partition Coefficient/n-Octanol/Water:

Not Determined Not Determined Not Determined Not Determined Not 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 Exposure Eye or skin contact, inhalation.

Inhalation Massive inhalation may be harmful.

Skin Contact Prolonged or repeated contact may cause slight skin irritation. May cause an allergic

skin reaction.

Eye Contact May cause mild eye irritation.

Ingestion Not determined

Aggravated Medical Conditions Respiratory disorders.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure to cellulose-containing fibers can cause byssinosis

(cotton dust fever).

Other Information None known.

Toxicity Tests

Oral Toxicity: Not determined

BARASORB Page 3 of 6 **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 Not determined

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 MethodBury 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 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 questions about the Material Safety Data Sheet for this or other Halliburton

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

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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.

BARASORB Page 5 of 6

END OF MSDS