# **HALLIBURTON**

# **SAFETY DATA SHEET**

Product Trade Name: BARAKLEAN® NS PLUS

Revision Date: 07-Apr-2015 Revision Number: 22

#### 1. Identification

1.1. Product Identifier

Product Trade Name: BARAKLEAN® NS PLUS

Synonyms: None

Chemical Family: Carbohydrate Internal ID Code HM003514

1.2 Recommended use and restrictions on use

Application: Surfactant

Uses Advised Against No information available

1.3 Manufacturer's Name and Contact Details

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 Stewardship

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number

Emergency Telephone Number (281) 575-5000

# 2. Hazard(s) Identification

#### 2.1 Classification in accordance with paragraph (d) of §1910.1200

Serious Eye Damage / Eye Irritation	Category 1 - H318
Acute Aquatic Toxicity	Acute 3 - H402

### 2.2. Label Elements

#### **Hazard Pictograms**



Signal Word Danger

Hazard Statements H318 - Causes serious eye damage

H402 - Harmful to aquatic life

#### **Precautionary Statements**

**Prevention** P264 - Wash face, hands and any exposed skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Storage None

**Disposal** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

**Contains** 

**Substances**D-Glucopyranose, oligomeric, decyl octyl glycosides

CAS Number
68515-73-1

#### 2.3 Hazards not otherwise classified

None known

# 3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
D-Glucopyranose, oligomeric, decyl octyl	68515-73-1	60 - 100%	Eye Corr. 1 (H318)
glycosides			Aquatic Acute 3 (H402)

The exact percentage (concentration) of the composition has been withheld as proprietary.

# 4. First-Aid Measures

#### 4.1. Description of first aid measures

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

irritation develops or if breathing becomes difficult.

**Eyes** Immediately flush eyes with large amounts of water for at least 30 minutes. Seek

prompt medical attention.

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

**Ingestion** Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical

attention.

#### 4.2 Most important symptoms/effects, acute and delayed

Causes severe eye irritation which may damage tissue.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. Fire-fighting measures

#### 5.1. Extinguishing media

#### Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

# Extinguishing media which must not be used for safety reasons

None known.

## 5.2 Specific hazards arising from the substance or mixture

Special Exposure Hazards

Decomposition in fire may produce toxic gases.

#### 5.3 Special protective equipment and precautions for fire-fighters

**Special Protective Equipment for Fire-Fighters** 

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment.

See Section 8 for additional information

#### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

### 6.3. Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

# 7. Handling and storage

### 7.1. Precautions for Safe Handling

**Handling Precautions** 

Avoid contact with eyes, skin, or clothing.

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Information** 

Store away from oxidizers.

# 8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	Not applicable	Not applicable

#### 8.2 Appropriate engineering controls

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

# 8.3 Individual protection measures, such as personal protective equipment

**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, AS/NZS 1715:2009, 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.

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

**Hand Protection**Skin Protection
Normal work gloves.
Normal work coveralls.

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

Other Precautions None known.

# 9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color: Yellow

Odor: Mild Odor No information available

Threshold:

No data available

Property Values Values

Remarks/ - Method

**Vapor Density** 

pH:11.5-12.5Freezing Point/Range-8 °C / 18 °FMelting Point/RangeNo data availableBoiling Point/Range> 100 °C / > 212 °F

Flash Point > 100 °C / > 212 °F PMCC

Flammability (solid, gas)
upper flammability limit
lower flammability limit
Evaporation rate
Vapor Pressure

No data available
No data available
No data available
No data available

Specific Gravity 1.13

Water Solubility Soluble in water Solubility in other solvents No data available

Partition coefficient: n-octanol/water < 3

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data available

**Explosive Properties**No information available
Oxidizing Properties
No information available

9.2. Other information

VOC Content (%) No data available

# 10. Stability and Reactivity

#### 10.1. Reactivity

Not expected to be reactive.

#### 10.2. Chemical Stability

Stable

#### 10.3. Possibility of Hazardous Reactions

Will Not Occur

#### 10.4. Conditions to Avoid

None anticipated

#### 10.5. Incompatible Materials

Strong oxidizers.

## 10.6. Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

# 11. Toxicological Information

# 11.1 Information on likely routes of exposure

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

# 11.2 Symptoms related to the physical, chemical and toxicological characteristics

**Acute Toxicity** 

**Inhalation** May irritate the lungs.

**Eye Contact** Causes severe eye irritation which may damage tissue.

**Skin Contact** May cause skin irritation. **Ingestion** May be harmful if swallowed.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1%

are chronic health hazards.

# 11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	> 2000 mg/kg (Rat) > 5000 mg/kg (Rat) (similar substance)	> 2000 mg/kg (Rabbit)	No data available

Substances	CAS Number	Skin corrosion/irritation
	68515-73-1	Not irritating to skin in rabbits. (similar substances)
oligomeric, decyl octyl		
glycosides		

Substances	CAS Number	Eye damage/irritation
D-Glucopyranose,	68515-73-1	Causes severe eye irritation. (Rabbit) (similar substances)
oligomeric, decyl octyl		
glycosides		

Substances	CAS Number	Skin Sensitization
D-Glucopyranose,	68515-73-1	Did not cause sensitization on laboratory animals (guinea pig) (similar substances)
oligomeric, decyl octyl		
glycosides		

Substances	CAS Number	Respiratory Sensitization
D-Glucopyranose, oligomeric, decyl octyl	68515-73-1	No information available
glycosides		

Substances	CAS Number	Mutagenic Effects
D-Glucopyranose, oligomeric, decyl octyl	68515-73-1	In vitro tests did not show mutagenic effects (similar substances)
glycosides		

Substances	CAS Number	Carcinogenic Effects
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	Not regarded as carcinogenic. (similar substances)
grycosides		

Substances	CAS Number	Reproductive toxicity
D-Glucopyranose,	68515-73-1	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal
oligomeric, decyl octyl		experiments. (similar substances)
glycosides		

Substances	CAS Number	STOT - single exposure
D-Glucopyranose, oligomeric, decyl octyl		No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
glycosides		

AS Number	STOT - repeated exposure
	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
-	515-73-1

Substances	CAS Number	Aspiration hazard
D-Glucopyranose,	68515-73-1	Not applicable
oligomeric, decyl octyl		
glycosides		

# 12. Ecological Information

12.1. Toxicity
Ecotoxicity Effects

# **Product Ecotoxicity Data**

No data available

**Substance Ecotoxicity Data** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	EC50 (72h) 27.22 mg/L (Desmodesmus subspicatus) EC50 (72h) 19.82 mg/L (Selenastrum sp.)	LC50 (96h) 126 mg/L (Danio rerio) LC50 (96h) 96.64 mg/L (Scophthalmus maximus) NOEC (96h) 56mg/L (Scophthalmus maximus) NOEC (96h) >= 21 mg/L (Cyprinodon variegatus) NOEC (28d) 1.8 mg/L (Danio rerio) (similar substance)	EC50 (6h) > 560 mg/L (Pseudomonas putida, growth inhibition)	EC50 (48h) >100 mg/L (Daphnia magna) EC50 (48h) 31.62 mg/L (Acartia tonsa) NOEC (21d) 1 mg/L (Daphnia magna) (similar substance)

# 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
D-Glucopyranose, oligomeric, decyl octyl	68515-73-1	Readily biodegradable (100% @ 28d)
glycosides		

# 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
D-Glucopyranose, oligomeric, decyl octyl glycosides	68515-73-1	1.77

# 12.4. Mobility in soil

Substances	Mobility
D-Glucopyranose, oligomeric, decyl octyl glycosides	Log KOC = 1.7

# 12.5 Other adverse effects

No information available

# 13. Disposal Considerations

#### 13.1. Waste treatment methods

**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

#### **US DOT**

UN Number: Not restricted
UN Proper Shipping Name:
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

US DOT Bulk

DOT (Bulk) Not applicable

**Canadian TDG** 

UN Number: Not restricted
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Not applicable

IMDG/IMO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not restricted
Not applicable
Not applicable

# IATA/ICAO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not restricted
Not applicable
Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Special Precautions for User: 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

Acute Health Hazard

**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.

# 16. Other information

**Preparation Information** 

Prepared By Chemical Stewardship

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

**Revision Date:** 07-Apr-2015

Reason for Revision Update to Format SECTION: 2

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 Stewardship at 1-580-251-4335.

#### Key or legend to abbreviations and acronyms

bw – body weight

CAS - Chemical Abstracts Service

EC50 - Effective Concentration 50%

ErC50 – Effective Concentration growth rate 50%

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL50 - Lethal Loading 50%

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PEL – Permissible Exposure Limit

ppm - parts per million

STEL - Short Term Exposure Limit

TWA - Time-Weighted Average

UN - United Nations

h - hour

mg/m<sup>3</sup> - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

w/w - weight/weight

d - day

# Key literature references and sources for data

www.ChemADVISOR.com/

#### **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 Safety Data Sheet**