# HALLIBURTON

# SAFETY DATA SHEET POLYSELECT POWER PAC<sup>™</sup>-R

Product Trade Name:

21-Sep-2017

Revision Number: 3

## 1. Identification

**Revision Date:** 

1.1. Product IdentifierProduct Trade Name:POLYSELECT POWER PAC™-RSynonymsNoneChemical Family:PolysaccharideInternal ID CodeHM008155

**1.2 Recommended use and restrictions on useApplication:**Fluid Loss Additive**Uses advised against**Consumer use

1.3 Manufacturer's Name and Contact Details Manufacturer/Supplier BENTONITE Performance Minerals LLC 3000 N Sam Houston Parkway East

Houston, TX 77032 Telephone: (281) 871-7900

BENTONITE Performance Minerals LLC 645 - 7th Ave SW Suite 1800 Calgary, AB T2P 4G8 Canada

#### **Prepared By**

Chemical Stewardship Telephone: 1-281-871-6107 e-mail: fdunexchem@halliburton.com

# 1.4. Emergency telephone number: Emergency Telephone Number 1-866-519-4752 or 1-760-476-3962 Global Incident Response Access Code: 334305 Contract Number: 14012

## 2. Hazards Identification

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

Combustible dust		Combustible dust
2.2. Label Elements		
Hazard Pictograms		
Signal Word:	Warning	
Hazard Statements	May form combustible dust concentrations in a	air.

#### **Precautionary Statements**

Prevention	None
Response	None
Storage	None
Disposal	None

2.3 Hazards not otherwise classified

None known

## 3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Polysaccharide	Proprietary	60 - 100%	Combustible Dust

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

4. First Aid Measures
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#### 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	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Skin Ingestion	Wash with soap and water. Get medical attention if irritation persists. Under normal conditions, first aid procedures are not required.

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

May cause mild eye, skin, and respiratory irritation.

## 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 in a fire

Decomposition in fire may produce harmful 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.

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

#### Special protective equipment for firefighters

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. Avoid creating and breathing dust. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

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

Scoop up and remove.

## 7. Handling and storage

## 7.1. Precautions for safe handling

## Handling Precautions

Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Avoid dust accumulations. Ensure adequate ventilation. Wash hands after use. Launder contaminated clothing before reuse. Slippery when wet. Use appropriate protective equipment.

#### **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. Store in a dry location. Product has a shelf life of 36 months.

## 8. Exposure Controls/Personal Protection

#### 8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Polysaccharide	Proprietary	Not applicable	Not applicable

#### 8.2 Appropriate engineering controls

**Engineering Controls** A well ventilated area to control dust levels. Local exhaust ventilation should be used in areas without good cross ventilation.

#### 8.3 Individual protection measures, such as personal protective equipment

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 needed. But if significant exposures are possible then the following
	respirator is recommended:
	Dust/mist respirator. (N95, P2/P3)
Hand Protection	Use gloves which are suitable for the chemicals present in this product as well as
	other environmental factors in the workplace.
Skin Protection	Wear protective clothing appropriate for the work environment.
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	phy	ysical and chemical	properties
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Physical State:	Solid Powder	Color	White to off white
Odor:	Odorless	Odor	No information available

Property Remarks/ - Method pH: **Freezing Point / Range** Melting Point / Range **Boiling Point / Range Flash Point** Flammability (solid, gas) Upper flammability limit Lower flammability limit Evaporation rate Vapor Pressure Vapor Density **Specific Gravity** Water Solubility Solubility in other solvents Partition coefficient: n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity **Explosive Properties Oxidizing Properties** 

#### Threshold:

#### Values

6.5-9 (1%) No data available No data available No data available 221 °C / 430 °F No data available 1.6 Soluble in water No data available No data available 400 °C / 752 °F No data available No data available No information available No information available

No data available 40-55 lbs/ft3

9.2. Other information VOC Content (%) Bulk Density

## 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

Keep away from heat, sparks and flame.

## 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.

## <u>11.2 Symptoms related to the physical, chemical and toxicological characteristics</u> Acute Toxicity

Inhalation	May cause mild respiratory irritation.
Eye Contact	May cause mechanical irritation to eye.
Skin Contact	Prolonged or repeated contact may cause slight skin irritation.
Ingestion	None known.

**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 f	or the compone	ents				
Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Polysaccharide	Proprietary	27000 mg/kg (Rat)	2000 mg/kg (Rabbit)	5800 mg/m3 (Rat) 4h		
Substances	CAS Number	Skin corrosion/irritation				
Polysaccharide		Not irritating to skin in rabbits.		_		
Substances	CAS Number	Serious eye damage/irritatio	n			
Polysaccharide		Non-irritating to rabbit's eye				
Substances	CAS Number	Skin Sensitization				
Polysaccharide		Did not cause sensitization on lab	oratory animals			
Substances	CAS Number	Respiratory Sensitization				
Polysaccharide		No information available				
Substances	CAS Number	Mutagenic Effects				
Polysaccharide			nic effects. In vivo tests did not sho	w mutagenic effects. (similar		
Substances	CAS Number	Carcinogenic Effects				
Polysaccharide			in animal experiments (similar sub	stances)		
Substances	CAS Number	Reproductive toxicity				
Polysaccharide			ffects on fertility. Did not show terat	ogenic effects in animal		
Substances	CAS Number	STOT - single exposure				
Polysaccharide		No information available				
Substances	CAS Number	STOT - repeated exposure				
Polysaccharide		No significant toxicity observed in animal studies at concentration requiring classification.				
Substances	CAS Number	Aspiration hazard				
Polysaccharide		Not applicable				

## 12. Ecological Information

## 12.1. Toxicity

Ecotoxicity effects

Product is not classified as hazardous to the environment.

## Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
			-	Microorganisms	_
Polysaccharide	Proprietary	No information available	TLM96: 10000 ppm	No information available	EC50 (48h) 1000-3300
,			(Oncorhynchus mykiss)		mg/L (Crangon crangon)
			LC50 (96h) 20000 mg/L		
			(Oncorhynchus mykiss)		

## 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Polysaccharide	Proprietary	No information available

## 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Polysaccharide	Proprietary	No information available

## 12.4. Mobility in soil

Disperses rapidly in air		
Substances	CAS Number	Mobility
Polysaccharide	Proprietary	No information available

## 12.5 Other adverse effects

No information available

## 13. Disposal Considerations

## 13.1. Waste treatment methods

Disposal methods	
Contaminated Packaging	

Bury in a licensed landfill according to federal, state, and local regulations. Follow all applicable national or local regulations.

## 14. Transport Information

## US DOT

UN Number UN proper shipping name: Transport Hazard Class(es): Packing Group:	Not restricted Not restricted Not applicable Not applicable
Environmental Hazards:	Not applicable
Canadian TDG UN Number UN proper shipping name: Transport Hazard Class(es): Packing Group: Environmental Hazards:	Not restricted Not restricted Not applicable Not applicable Not applicable
IMDG/IMO	
UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es): Packing Group:	Not applicable Not applicable
Environmental Hazards:	Not applicable
ΙΑΤΑ/ΙCΑΟ	
UN Number	Not restricted
UN proper shipping name:	Not restricted
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Not applicable

<u>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</u> Not applicable <u>Special Precautions for User</u> None

## 15. Regulatory Information

## **US Regulations**

**US TSCA Inventory** 

All components listed on inventory or are exempt.

#### TSCA Significant New Use Rules - S5A2

Substances	CAS Number	TSCA Significant New Use Rules - S5A2
Polysaccharide	Proprietary	Not applicable

## EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous Substances
Polysaccharide	Proprietary	Not applicable

## EPA SARA (311,312) Hazard Class

None

#### EPA SARA (313) Chemicals

Substances	CAS Number	Toxic Release Inventory (TRI) -	Toxic Release Inventory (TRI) -
		Group I	Group II
Polysaccharide	Proprietary	Not applicable	Not applicable

## EPA CERCLA/Superfund Reportable Spill Quantity

Substances	CAS Number	CERCLA RQ
Polysaccharide	Proprietary	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

Substances	CAS Number	California Proposition 65
Polysaccharide	Proprietary	Not applicable

#### U.S. State Right-to-Know Regulations

Polycaccharide Proprietary Not applicable Not applicable Not applicable	Know Law
Polysaccharide Proprietary Not applicable Not applicable Not applicable Not applicable	e

NFPA Ratings:	Health 0, Flammability 0, Reactivity 0
HMIS Ratings:	Health 0, Flammability 0, Physical Hazard 0, PPE: B

## **Canadian Regulations**

Canadian Domestic Substances All components listed on inventory or are exempt. List (DSL)

## 16. Other information

Preparation Information Prepared By	Chemical Stewardship Telephone: 1-281-871-6107 e-mail: fdunexchem@halliburton.com
Revision Date:	21-Sep-2017
Reason for Revision	Name change

## 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 used in the safety data sheet

bw - body weight CAS - Chemical Abstracts Service d - dav EC50 - Effective Concentration 50% ErC50 – Effective Concentration growth rate 50% h - hour LC50 – Lethal Concentration 50% LD50 – Lethal Dose 50% LL50 – Lethal Loading 50% mg/kg - milligram/kilogram mg/L - milligram/liter mg/m<sup>3</sup> - milligram/cubic meter mm - millimeter mmHg - millimeter mercury 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** w/w - weight/weight

## Key literature references and sources for data

www.ChemADVISOR.com/

## **Disclaimer Statement**

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## End of Safety Data Sheet