## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: DCA-25009

Revision Date: 28-Feb-2014

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: DCA-25009 Synonyms: None

Chemical Family:PolysaccharideApplication:Gelling Agent

Manufacturer/Supplier Halliburton Energy Services, Inc.

P.O. Box 1431

Duncan, Oklahoma 73536-0431

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
Cellulose derivative	Proprietary	60 - 100%	10 mg/M3	15 mg/M3

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** 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

### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F):

Flash Point/Range (C):

Flash Point Method:

Not Determined

Not Determined

Autoignition Temperature (F): 752
Autoignition Temperature (C): 400

Flammability Limits in Air - Lower (%):

Not Determined
Not Determined

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

Special Exposure Hazards Organic dust in the presence of an ignition source can be explosive in high

concentrations. Good housekeeping practices are required to minimize this

potential.

**Special Protective Equipment** 

for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required

for fire fighting personnel.

NFPA Ratings: Health 0, Flammability 0, Reactivity 0

**HMIS Ratings:** Health 0, Flammability 0, Physical Hazard 0, PPE: B

#### 6. 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.

#### 7. HANDLING AND STORAGE

**Handling Precautions** Avoid creating or inhaling dust.

**Storage Information** Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of

24 months.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use in a well ventilated area. Localized ventilation should be used to control dust

levels.

**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.

**Skin Protection** Normal work coveralls.

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

Other Precautions None known.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Color: White

Odor: Characteristic

pH: 7
Specific Gravity @ 20 C (Water=1): 1.36

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

Bulk Density @ 20 C (lbs/ft3): 32.1

Boiling Point/Range (F):

Boiling Point/Range (C):

Freezing Point/Range (F):

Freezing Point/Range (C):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Not Determined

Not Determined

Not Determined

Percent Volatiles: <5

**Evaporation Rate (Butyl Acetate=1):** Not Determined Solubility in Water (g/100ml): Forms gel 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 Molecular Weight (g/mole): 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.

Sympotoms related to exposure

**Acute Toxicity** 

**Inhalation** None known.

**Eye Contact** May cause mild eye irritation.

Skin Contact None known.
Ingestion None known

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are chronic

health hazards.

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation	l
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Cellulose derivative	Proprietary	> 2000 mg/kg	No data available	No data available
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### 12. ECOLOGICAL INFORMATION

### **Ecotoxicological Information**

**Ecotoxicity Product** 

Acute Fish Toxicity: Not determined
Acute Crustaceans Toxicity: Not determined
Acute Algae Toxicity: Not determined

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
				Microorganisms	
Cellulose derivative	Proprietary	No information available	No information available	No information available	TLM96: > 1,000,000 ppm
					(Mysidopsis bahia)

#### 12.2 Persistence and degradability

Product is biodegradable

#### 12.3 Bioaccumulative potential

Does not bioaccumulate

#### 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**Bury 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 One or more components listed.

NJ Right-to-Know Law One or more components listed.

PA Right-to-Know Law One or more components listed.

**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 guestions about the Safety Data Sheet for this or other Halliburton products,

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

#### **Disclaimer Statement**

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