# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: WG-18 GELLING AGENT

Revision Date: 25-Nov-2013 Revision Number: 12

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Trade Name: WG-18 GELLING AGENT

Synonyms: None

Chemical Family: Polysaccharide Internal ID Code HM001422

Product Use

Application: Gelling Agent

**Manufacturer's Name and Contact Details** 

Name and Address Halliburton Energy Services

645 - 7th Ave SW Suite 2200

Calgary, AB T2P 4G8 Canada

**Emergency Telephone Number** (281) 575-5000

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

# 2. HAZARD(S) IDENTIFICATION

WHIMIS Classification

WHMIS Hazard Class Un-Controlled

WHMIS Symbol(s)

Summary of hazards of the product

Hazard Overview May cause mild eye, skin, and respiratory irritation. Organic dust in the presence

of an ignition source can be explosive in high concentrations. Good housekeeping

practices are required to minimize this potential.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	` '	HMIRA Registry Number	Filing Date
Contains no hazardous substances	Mixture	60 - 100%	Not applicable	Not applicable

# 4. FIRST AID MEASURES

**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** Wash with soap and water.

**Ingestion** Under normal conditions, first aid procedures are not required.

## Most important symptoms and effects, both acute and delayed

May cause mild eye, skin, and respiratory irritation.

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

Notes to Physician Treat symptomatically

## 5. FIRE FIGHTING MEASURES

**Extinguishing media** 

**Suitable Extinguishing Media** 

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

# Special hazards arising from the substance or mixture

#### **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.

## Advice for firefighters

#### **Special Protective Equipment for Fire-Fighters**

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

## **Hazardous combustion products**

Carbon monoxide and carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions and emergency producedures

**Protective Equipment** 

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

#### Precautions for safe handling

Slippery when wet. Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.

## Conditions for safe storage and Incompatible materials for storage

Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of 24 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Occupational Exposure Limits**

**Exposure Limits** 

Substances CAS Number ACGIH TLV-TWA OSHA PEL-TWA

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Contains no hazardous Mixture Not applicable Not applicable substances

Appropriate engineering controls

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

Personal Protective Equipment (PPE)

**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

Information on basic physical and chemical properties

Physical State: Solid Color: Off white

Odor: Bland Odor Threshold: No information available

<u>Property</u> <u>Values</u>

Remarks/ - Method

**pH**: 9-10

pH Concentration of Solution:No information available.Freezing Point/RangeNo information available.Melting Point/RangeNo information available.Boiling Point/Range (C):No information available.Flash Point/Range (C):No information available.Flash Point Method:No information available.

Autoignition Temperature (C): 500

Flammability Limits in Air - Lower (%):

Flammability Limits in Air - Upper (%):

Evaporation Rate (Butyl Acetate=1):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

No information available.

No information available.

No information available.

Specific Gravity @ 20 C (Water=1): 1.3
Solubility in Water (g/100ml): Forms gel

Solubility in other solvents

Partition Coefficient/n-Octanol/Water:

Decomposition Temperature (C):

Viscosity

No information available.

No information available.

No information available.

No information available.

Explosive Properties

Oxidizing Properties

No information available
No information available
No information available

Other Information

Molecular Weight (g/mole):No information available.VOC Content (%)No information available.

# 10. STABILITY AND REACTIVITY

Conditions of Reactivity

Conditions to Avoid
Hazardous Polymerization:

None anticipated
Will Not Occur

Chemical Stability

Stable

Sensitivity to Static Discharge

Not available

**Sensitivity to Mechanical Impact** 

Not available

Incompatible materials

Strong oxidizers.

**Hazardous Decomposition Products** 

Carbon monoxide and carbon dioxide.

# 11. TOXICOLOGICAL INFORMATION

Routes of entry

Eye or skin contact, inhalation.

**Information on Toxicological Effects** 

Acute effects from exposure

**Inhalation** May cause mild respiratory irritation. May cause allergic respiratory reaction.

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

**Skin Contact** Prolonged or repeated contact may cause slight skin irritation.

**Ingestion** None known

Chronic effects from exposure

Chronic Effects/Carcinogenicity

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

health hazards.

Irritancy of product

Irritation Non-irritating to the skin Non-irritating to the eye

Sensitization of product

Sensitization Not confirmed to cause skin or respiratory sensitization.

Mutagenicity

Mutagenic Effects Not regarded as mutagenic

Carcinogenicity

Carcinogenic Effects No ingredient of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity

Reproductive Toxicity This product does not contain any known or suspected reproductive hazards

Teratogenicity/embryotoxicity

Teratogenic Not a teratogen or embroytoxin.

Toxicologically synergistic material Not available

**Acute Toxicity** 

LD50 Oral:

> 5000 mg/kg; (rat)

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Contains no hazardous	Mixture	No data available	No data available	No data available
substances				

Test species: Rat

# 12. ECOLOGICAL INFORMATION

**Toxicity** 

**Ecotoxicity Effects** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Contains no hazardous substances	Mixture	No information available	No information available	No information available	No information available

## Persistence and Degradability

Readily biodegradable

## Bioaccumlation potential

Does not bioaccumulate

### Mobility in soil

No information available

## Results of PBT and vPvB assessment

No information available.

#### Other adverse effects

#### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

## 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

**Canadian TDG** 

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

IATA/ICAO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

IMDG/IMO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

Special Precautions for User None

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

# 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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Canadian Regulations

Canadian DSL Inventory

All components listed on inventory or are exempt.

WHMIS Hazard Class Un-Controlled

WHMIS Symbol(s)

US Regulations

US TSCA Inventory

All components listed on inventory or are exempt.

# 16. OTHER INFORMATION

**Preparation Information** 

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

Revision Date: 25-Nov-2013

Not applicable

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 Compliance at 1-580-251-4335.

Key or legend to abbreviations and acronyms

WHMIS: Workplace Hazardous Materials Information System

Key literature references and sources for data

www.ChemADVISOR.com/

#### **Disclaimer Statement**

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