# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: EX-269

Revision Date: 23-Apr-2014

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: EX-269 Synonyms: None

Chemical Family: Carbohydrate
Application: 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
Contains no hazardous	PROPRIETARY	60 - 100%	Not applicable	Not applicable
substances				

### 3. HAZARDS IDENTIFICATION

Hazard Overview May cause mild eye, skin, and respiratory 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. Get medical attention if irritation persists. Remove

contaminated clothing and launder before reuse.

**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): 430 Flash Point/Range (C): 221

Flash Point Method: 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 1, Reactivity 0

**HMIS Ratings:** Health 0, Flammability 1, Physical Hazard 0, PPE: X

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary** 

**Measures** 

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. Avoid dust accumulations. Slippery when wet.

Ground and bond containers when transferring from one container to another.

Storage Information Store away from oxidizers. Store in a dry location. Product has a shelf life of 36

months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls A well ventilated area to control dust levels. Local exhaust ventilation should be

used in areas without good cross ventilation.

**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.

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: Powder

Color: White to tan Odor: Odorless PH: 6.5-9 (1%)

Specific Gravity @ 20 C (Water=1): 1.6

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

Bulk Density @ 20 C (lbs/ft3): 40-55

**Boiling Point/Range (F):** Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (F): Not Determined Freezing Point/Range (C): Not Determined Vapor Pressure @ 20 C (mmHg): Not Determined Vapor Density (Air=1): Not Determined **Percent Volatiles:** Not Determined **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): Not Determined

### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None known.

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** May cause 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 1% are chronic

health hazards.

Toxicology data for the components

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

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicological Information**

**Ecotoxicity Product** 

Acute Fish Toxicity: TLM96: > 500 mg/l (Golden orfe)

LC50: (96 hour) > 21,000 ppm (Oncorhynchus mykiss)

TLM96: > 56,000 ppm (Gasterosteus aculeatus)

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

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Contains no hazardous substances	PROPRIETA RY	No information available	No information available	No information available	No information available

#### 12.2 Persistence and degradability

Readily biodegradable

## 12.3 Bioaccumulative potential

No information available

#### 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

**US DOT** 

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:

Not restricted.
Not applicable
Not applicable

**US DOT Bulk** 

DOT (Bulk) Not Applicable

Canadian TDG ul0

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

IMDG/IMO

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

IATA/ICAO

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

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

**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.

Does not apply. PA Right-to-Know Law

Canadian Regulations

**Canadian DSL Inventory** All components listed on inventory or are exempt.

**WHMIS Hazard Class Un-Controlled** 

> EX-269 Page 5 of 6

## 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 questions about the Safety Data Sheet for this or other Halliburton products,

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

**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 MSDS\*\*\*