## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: COHESIVE CEMENT ADDITIVE

**Revision Date:** 04-Jan-2011

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: COHESIVE CEMENT ADDITIVE

Synonyms: None Chemical Family: Blend

**Application:** Cement Additive

Manufacturer/Supplier Halliburton Energy Services

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	<b>ACGIH TLV-TWA</b>	OSHA PEL-TWA
Proprietary Cellulose Mixture	Proprietary	60 - 100%	Not applicable	Not applicable
Sodium nitrate	7631-99-4	5 - 10%	Not applicable	Not applicable

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and respiratory irritation. May be harmful if swallowed.

## 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

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

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of water

for at least 15 minutes and get medical attention immediately after flushing.

**Ingestion** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek

medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician Not Applicable

#### FIRE FIGHTING MEASURES

Flash Point/Range (F): Not Determined Flash Point/Range (C): Not Determined **Flash Point Method:** Not Determined **Autoignition Temperature (F):** Not Determined **Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (%): Not Determined Flammability Limits in Air - Upper (%): Not Determined

Fire Extinguishing Media Water fog, carbon dioxide, foam, dry chemical. **Special Exposure Hazards** Decomposition in fire may produce toxic gases.

**Fire-Fighters** 

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

Health 1, Flammability 1, Reactivity 0 **NFPA Ratings: HMIS Ratings:** Health 1, Flammability 1, Reactivity 0

#### ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning /** 

**Absorption** 

Scoop up and remove. Flush area with water.

## HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust.

**Storage Information** Store in a cool, dry location.

#### **EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

**Respiratory Protection** Dust/mist respirator. (95%)

**Hand Protection** Impervious rubber gloves.

Normal work coveralls. Skin Protection

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

**Other Precautions** Eyewash fountains and safety showers must be easily accessible.

## PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid Color: Light tan Odor: Odorless

:Ha Not Determined Specific Gravity @ 20 C (Water=1): Not Determined Density @ 20 C (lbs./gallon): Not Determined Bulk Density @ 20 C (lbs/ft3): Not Determined

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point/Range (F):** Not Determined **Boiling Point/Range (C):** Not Determined Freezing Point/Range (F): Not Determined Not Determined Freezing Point/Range (C): 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): Slightly soluble Solubility in Solvents (g/100ml): Not Determined VOCs (lbs./gallon): Not Determined Viscosity, Dynamic @ 20 C (centipoise): Not Determined Viscosity, Kinematic @ 20 C (centistrokes): Not Determined Partition Coefficient/n-Octanol/Water: Not Determined Not Determined Molecular Weight (g/mole):

# 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None known.

Incompatibility (Materials to

Avoid)

Strong acids. Strong alkalis. Strong oxidizers. Amines.

**Hazardous Decomposition** 

**Products** 

Oxides of nitrogen. Aldehydes. Carboxylic acids. Carbon monoxide and carbon

dioxide. Amorphous silica may transform at elevated temperatures to tridymite (870

C) or cristobalite (1470 C).

Additional Guidelines Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

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

**Inhalation** May cause respiratory irritation.

Skin Contact May cause skin irritation.

**Eye Contact** May cause eye irritation.

**Ingestion** Irritation of the mouth, throat, and stomach. May reduce the blood's ability to

transport oxygen (methemalobinemia).

Aggravated Medical Conditions Skin disorders.

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

chronic health hazards.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: Not determined

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

# **Ecotoxicological Information**

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

Chemical Fate Information Not determined

Other Information Not applicable

## 13. DISPOSAL CONSIDERATIONS

**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

# **Land Transportation**

DOT

Not restricted

#### **Canadian TDG**

Not restricted

**ADR** 

Not restricted

## **Air Transportation**

**ICAO/IATA** 

Not restricted

# **Sea Transportation**

**IMDG** 

Not restricted

# Other Shipping 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

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 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.

WHMIS Hazard Class D2B Toxic Materials

#### 16. OTHER INFORMATION

## The following sections have been revised since the last issue of this MSDS

Not applicable

**Additional Information** For additional information on the use of this product, contact your local Halliburton

representative.

For guestions about the Material Safety Data Sheet for this or other Halliburton

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

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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\*\*\*