# **HALLIBURTON**

# **MATERIAL SAFETY DATA SHEET**

Product Trade Name: N-VIS® HI

Revision Date: 20-Dec-2012

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: N-VIS® HI
Synonyms: None
Chemical Family: Silicate
Application: Viscosifier

Manufacturer/Supplier Baroid Fluid Services

Product Service Line of Halliburton

P.O. Box 1675 Houston, TX 77251

Telephone: (281) 871-4000

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	ACGIH TLV-TWA	OSHA PEL-TWA
Silicate		60 - 100%	10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>

## 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye and skin burns. May cause respiratory irritation.

# 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** In case of contact, immediately flush skin with plenty of soap and water for at least 15

minutes. Get medical attention.

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 None - does not burn.

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

# HANDLING AND STORAGE

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

hands after use. Launder contaminated clothing before reuse.

**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. (N95, P2/P3)

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Rubber apron.

**Eye Protection** Dust proof goggles.

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

# PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid Color: Gray Odor: Odorless pH: 11

Specific Gravity @ 20 C (Water=1): 0.6

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

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Bulk Density @ 20 C (lbs/ft3): Not Determined **Boiling Point/Range (F):** Not Determined **Boiling Point/Range (C):** Not Determined Not Determined Freezing Point/Range (F): 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): Insoluble 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 Not Determined Partition Coefficient/n-Octanol/Water: Molecular Weight (g/mole): Not Determined

# 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

**Conditions to Avoid** Keep away from any contact with water.

Incompatibility (Materials to

Avoid)

Strong acids.

**Hazardous Decomposition** 

**Products** 

Toxic fumes.

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 alkali burns with confined contact.

**Eye Contact** May cause severe eye irritation. May cause corneal injury.

**Ingestion** Irritation of the mouth, throat, and stomach.

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: LD50: > 2000 mg/kg (Rat)

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

N-VIS® HI Page 3 of 6 Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

Not determined

**Developmental Toxicity:** 

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not applicable

Bio-accumulation Not determined

# **Ecotoxicological Information**

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

Chemical Fate InformationNot determinedOther InformationNot applicable

# 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

UN3262, Corrosive Solid, Basic, Inorganic, N.O.S. (Calcium aluminosilicate), 8, III NAERG 154

#### **Canadian TDG**

Corrosive Solid, Basic, Inorganic, N.O.S.(Calcium aluminosilicate), 8, UN3262, III

#### **ADR**

UN3262, Corrosive Solid, Basic, Inorganic, N.O.S. (Calcium aluminosilicate), 8, III

## **Air Transportation**

## ICAO/IATA

UN3262, Corrosive Solid, Basic, Inorganic, N.O.S., 8, III (Calcium aluminosilicate)

# Sea Transportation

#### **IMDG**

UN3262, Corrosive Solid, Basic, Inorganic, N.O.S. (Calcium aluminosilicate), 8, III EmS F-A, S-B

# Other Transportation Information

Labels: Corrosive

## 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 Does not apply.

NJ Right-to-Know Law Does not apply.

PA Right-to-Know Law Does not apply.

**Canadian Regulations** 

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

WHMIS Hazard Class E Corrosive Material

## 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.

## **Disclaimer Statement**

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