### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: 14N

Revision Date: 20-Dec-2012

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: 14N Synonyms: None Chemical Family: Blend

**Application:** Non-Emulsifier

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	<b>CAS Number</b>	PERCENT	<b>ACGIH TLV-TWA</b>	<b>OSHA PEL-TWA</b>
Quaternary ammonium		30 - 60%	Not applicable	Not applicable
compound				
Isopropanol	67-63-0	10 - 30%	200 ppm	400 ppm

# 3. HAZARDS IDENTIFICATION

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

headache, dizziness, and other central nervous system effects. May be harmful if swallowed. May be absorbed through the skin. Repeated overexposure may cause

liver and kidney effects. Flammable.

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

minutes. Get medical attention. Remove contaminated clothing and launder before

reuse.

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): 90 Flash Point/Range (C): 32 **Flash Point Method: PMCC** 

**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** May be ignited by heat, sparks or flames. Closed containers may explode in fire.

Use water spray to cool fire exposed surfaces. 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.

**NFPA Ratings:** Health 2, Flammability 3, Reactivity 0 Health 2, Flammability 3, Reactivity 0 **HMIS Ratings:** 

# ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures Use appropriate protective equipment. Wear self-contained breathing apparatus in

enclosed areas.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning /

**Absorption** 

Isolate spill and stop leak where safe. Remove ignition sources and work with nonsparking tools. Contain spill with sand or other inert materials. Scoop up and

remove.

# HANDLING AND STORAGE

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after **Handling Precautions** 

use. Launder contaminated clothing before reuse. Ground and bond containers

when transferring from one container to another.

**Storage Information** Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container

closed when not in use.

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

**Engineering Controls** Use in a well ventilated area. Local exhaust ventilation should be used in areas

without good cross ventilation.

**Respiratory Protection** Organic vapor respirator.

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Rubber apron.

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists.

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:Light yellowOdor:Alcohol

pH: Not Determined

 Specific Gravity @ 20 C (Water=1):
 0.95

 Density @ 20 C (lbs./gallon):
 7.9135

Bulk Density @ 20 C (lbs/ft3): Not Determined **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): Soluble

Solubility in Solvents (g/100ml):

VOCs (lbs./gallon):

Viscosity, Dynamic @ 20 C (centipoise):

Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Not Determined

Not Determined

#### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

**Conditions to Avoid** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers.

**Hazardous Decomposition** 

**Products** 

Oxides of nitrogen. Carbon monoxide and carbon dioxide. Hydrogen chloride.

Additional Guidelines Not Applicable

# 11. TOXICOLOGICAL INFORMATION

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

**Inhalation** May cause respiratory irritation. May cause central nervous system depression

including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

**Skin Contact** May cause a rash and itching of the skin. May cause skin irritation.

**Eye Contact** Causes severe eye irritation May cause eye burns.

Ingestion Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting,

nausea, and diarrhea. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue blurred vision, slurred speech, giddiness, tremors and

convulsions.

Aggravated Medical Conditions Skin disorders. Eye ailments.

**Chronic Effects/Carcinogenicity** Repeated overexposure may cause liver and kidney effects.

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 Slowly biodegradable

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** 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

UN1993,Flammable Liquid, N.O.S.(Contains Isopropanol), 3, III, (32.2 C) NAERG 128

#### **Canadian TDG**

Flammable Liquid, N.O.S.(Contains Isopropanol), 3, UN1993, III, (32.2 C)

#### **ADR**

UN1993, Flammable Liquid, N.O.S. (Contains Isopropanol), 3, III

### **Air Transportation**

#### **ICAO/IATA**

UN1993,Flammable Liquid, N.O.S., 3, III (Contains Isopropanol)

# **Sea Transportation**

**IMDG** 

UN1993,Flammable Liquid, N.O.S.(Contains Isopropanol), 3, III, (32.2 C) EmS F-E, S-E

# **Other Transportation Information**

Labels: Flammable Liquid

# 15. REGULATORY INFORMATION

# **US Regulations**

**US TSCA Inventory** Product contains one or more components not listed on the inventory.

**EPA SARA Title III Extremely Hazardous Substances** 

Not applicable

**EPA SARA (311,312) Hazard** 

**Class** 

Acute Health Hazard Chronic Health Hazard

Fire Hazard

**EPA SARA (313) Chemicals** 

This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:

Isopropanol//67-63-0

EPA CERCLA/Superfund Reportable Spill Quantity

Not applicable.

**EPA RCRA Hazardous Waste** 

Classification

If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:

Ignitability D001

**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** 

Product contains one or more components not listed on the inventory.

B2 Flammable Liquids 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 questions 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\*\*\*