#### **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: HALLIBURTON CASING WASH

Revision Date: 02-Jan-2013

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: HALLIBURTON CASING WASH

Synonyms: None
Chemical Family: Blend
Application: Solvent

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
Oxylated alcohol		5 - 10%	Not applicable	Not applicable
Sodium hydroxide	1310-73-2	10 - 30%	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Ethylene glycol monobutyl ether	111-76-2	5 - 10%	20 ppm	50 ppm

## 3. HAZARDS IDENTIFICATION

Hazard Overview May cause eye, skin, and respiratory burns. May cause headache, dizziness, and

other central nervous system effects. May be harmful if swallowed. Repeated

overexposure may cause liver and kidney effects.

#### 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): Not DeterminedMin: > 195 Flash Point/Range (C): Not DeterminedMin: > 90

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 All standard firefighting media.

**Special Exposure Hazards** May form explosive mixtures with strong alkalis. Decomposition in fire may produce

toxic gases. Do not allow runoff to enter waterways.

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

fire fighting personnel.

Fire-Fighters

Health 3, Flammability 0, Reactivity 0

**NFPA Ratings: HMIS Ratings:** Health 3, 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** 

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials.

Neutralize to pH of 6-8. Scoop up and remove.

#### HANDLING AND STORAGE

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

use. Launder contaminated clothing before reuse.

**Storage Information** Store away from acids. Store away from oxidizers. Store in a cool well ventilated

area. Keep container closed when not in use.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

without good cross ventilation.

**Respiratory Protection** Organic vapor respirator with a dust/mist filter.

**Hand Protection** Impervious rubber gloves.

Rubber apron. **Skin Protection** 

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

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

#### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid Color: Colorless

Odor: Aromatic hydrocarbon

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

 pH:
 14

 Specific Gravity @ 20 C (Water=1):
 1.09

 Density @ 20 C (lbs./gallon):
 9.08

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): Miscible

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

Not Determined

#### 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

Incompatibility (Materials to

Avoid)

Strong oxidizers. Strong acids. Prolonged contact with aluminum. Aldehydes. Avoid

contact with hydrochloric acid, as bis-chloromethyl ether may be produced.

Halogenated compounds.

**Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide.

Additional Guidelines Not Applicable

#### 11. TOXICOLOGICAL INFORMATION

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

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

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

slurred speech, giddiness and unconsciousness.

Skin Contact Causes severe burns.

Eye Contact May cause eye burns.

**Ingestion**Causes burns of the mouth, throat and stomach. 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. Prolonged or repeated

exposure may cause fetal damage and testicular effects.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: LD50: 140-340 mg/kg (Rat)

Dermal Toxicity: LD50: 1350 mg/kg (Rabbit)

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 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

UN1824, Sodium Hydroxide Solution, 8, II NAERG 154

**Canadian TDG** 

Sodium Hydroxide Solution, 8, UN1824, II

**ADR** 

### **Air Transportation**

ICAO/IATA

UN1824, Sodium Hydroxide Solution, 8, II

## Sea Transportation

**IMDG** 

UN1824, Sodium Hydroxide Solution, 8, II 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 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:

Sodium Hydroxide//1310-73-2

Glycol Ethers//111-76-2

**EPA CERCLA/Superfund Reportable Spill Quantity** 

EPA Reportable Spill Quantity is 1101 Gallons based on Sodium hydroxide (CAS:

1310-73-2).

**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:

Corrosivity D002

**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 or are exempt.

WHMIS Hazard Class E Corrosive Material

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.

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the user.

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