# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: SODA ASH

Revision Date: 25-Oct-2012

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: SODA ASH
Synonyms: None
Chemical Family: Carbonate
Application: Buffer

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
Sodium carbonate	497-19-8	60 - 100%	Not applicable	Not applicable

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and 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** Wash with soap and water. Get medical attention if irritation persists.

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

### **ACCIDENTAL RELEASE MEASURES**

Personal Precautionary Measures Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

Measures

Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning /** 

**Absorption** 

Scoop up and remove.

# HANDLING AND STORAGE

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

**Storage Information** Store away from acids. Store in a cool, dry location. Product has a shelf life of 36

months.

# **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Controls** Use in a well ventilated area. Localized ventilation should be used to control dust

levels.

**Personal Protective Equipment** If engineering controls and work practices cannot prevent excessive exposures, the

selection and proper use of personal protective equipment should be determined by

an industrial hygienist or other qualified professional based on the specific

application of this product.

Dust/mist respirator. (N95, P2/P3) **Respiratory Protection** 

**Hand Protection** Normal work gloves.

Skin Protection Normal work coveralls.

Dust proof goggles. **Eye Protection** 

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

### PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Powder

Color: White Odor: Odorless :Ha 11.5 Specific Gravity @ 20 C (Water=1): 2.5

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

Bulk Density @ 20 C (lbs/ft3): 48-62

Not Determined **Boiling Point/Range (F): 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 (q/100ml): Partially soluble 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): 105.99

# 10. STABILITY AND REACTIVITY

Stable **Stability Data:** 

**Hazardous Polymerization:** Will Not Occur

**Conditions to Avoid** None anticipated

Incompatibility (Materials to

Avoid)

Strong acids.

**Hazardous Decomposition** 

**Products** 

Carbon monoxide and carbon dioxide.

**Additional Guidelines** Not Applicable

# TOXICOLOGICAL INFORMATION

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

Inhalation May cause respiratory irritation.

**Skin Contact** Prolonged or repeated contact may cause skin irritation.

May cause eye irritation. **Eye Contact** 

Ingestion Irritation of the mouth, throat, and stomach.

**Aggravated Medical Conditions** None known.

**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: 4220 mg/kg (Rat)

**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 applicable

Bio-accumulation Not determined

# **Ecotoxicological Information**

Acute Fish Toxicity: TLM24: 385 mg/l (Lepomis macrochirus)

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

Chemical Fate Information Not determined

Other Information Not 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

Not restricted

**Canadian TDG** 

Not restricted

**ADR** 

Not restricted

# **Air Transportation**

#### ICAO/IATA

Not restricted

### **Sea Transportation**

**IMDG** 

Not restricted

# Other Transportation 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 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 Un-Controlled

### 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\*\*\*