## **HALLIBURTON**

## MATERIAL SAFETY DATA SHEET

Product Trade Name: Cla-Web™

Revision Date: 09-Feb-2015

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name:Cla-Web™Synonyms:NoneChemical Family:Blend

Application: Clay Stabilizer

Manufacturer/Supplier Halliburton Energy Services, Inc.

P.O. Box 1431

Duncan, Oklahoma 73536-0431

Emergency Telephone: (281) 575-5000

Prepared By Chemical Stewardship

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT (w/w)	ACGIH TLV-TWA	OSHA PEL-TWA
Hydroxyalkyl alkylammonium	Proprietary	30 - 60%	Not applicable	Not applicable
chloride				

#### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye, skin, and respiratory irritation. Potential carcinogen.

#### 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 Immediately flush eyes with large amounts of water for at least 15 minutes. Get

immediate medical attention.

**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 Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): > 200 Flash Point/Range (C): > 93

Flash Point Method:

Autoignition Temperature (F):

Autoignition Temperature (C):

Flammability Limits in Air - Lower (%):

Flammability Limits in Air - Upper (%):

Not Determined

Not Determined

Not Determined

Fire Extinguishing Media All standard firefighting media. Use water spray to cool fire exposed surfaces.

**Special Exposure Hazards** Closed containers may explode in fire.

**Special Protective Equipment** 

for Fire-Fighters

Not applicable.

NFPA Ratings: Health 2, Flammability 1, Reactivity 0

HMIS Ratings: Health 2, Flammability 1, Physical Hazard 0, PPE: X

## 6. 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. Scoop up and remove.

#### 7. HANDLING AND STORAGE

Handling Precautions Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Avoid breathing

mist. Wash hands after use.

Storage Information Store in a cool well ventilated area. Keep container closed when not in use. Store

locked up. Product has a shelf life of 12 months.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**Respiratory Protection** If engineering controls and work practices cannot keep exposure below

occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or

other qualified professional.

Hand Protection Impervious rubber gloves.

**Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron, rain

jacket, pants or coverall, as appropriate, to prevent skin contact.

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

Cla-Web™ Page 2 of 6 **Other Precautions** 

Eyewash fountains and safety showers must be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear colorless
Odor: Slight Amine
pH: 4-9 (1-10%)
Specific Gravity @ 20 C (Water=1): 1.0841-1.1142

**Density @ 20 C (lbs./gallon):** 9.16

Bulk Density @ 20 C (lbs/ft3):

Boiling Point/Range (F):

Boiling Point/Range (C):

Not Determined
Not Determined

Freezing Point/Range (F): -40
Freezing Point/Range (C): -40

Vapor Pressure @ 20 C (mmHg):Not DeterminedVapor Density (Air=1):Not DeterminedPercent Volatiles:Not DeterminedEvaporation Rate (Butyl Acetate=1):Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml): Not Determined VOCs (lbs./gallon): Not Determined

Viscosity, Dynamic @ 20 C (centipoise): 1-20

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 None anticipated

Incompatibility (Materials to

Avoid)

None known.

**Hazardous Decomposition** 

**Products** 

Metal oxides. 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.

Sympotoms related to exposure

Acute Toxicity

**Product Information**Under certain conditions of use, some of the product ingredients may cause the following:

InhalationMay cause mild respiratory irritation.Eye ContactMay cause mild eye irritation.Skin ContactMay cause mild skin irritation.

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

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

health hazards.

Cla-Web™ Page 3 of 6 Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydroxyalkyl	Proprietary	LD50: 2170 mg/kg (Rat)	LD50: >2000 mg/kg	LC50: > 12.05 mg/L (Rat)
alkylammonium chloride				

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicological Information**

**Ecotoxicity Product** 

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

**Ecotoxicity Substance** 

	TOAGAL I				
Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
			-	Microorganisms	-
Hydroxyalkyl	Proprietary	EC50: > 10000 mg/L	LC50: 4128 mg/L	No information available	Ec50: 164 mg/L (Daphnia
alkylammonium		(Scenedesmus	(Brachydanio rerio)		magna)
chloride		subspicatus)			NOEC: 0.51 mg/L
ornorido					(Daphnia magna)

#### 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Hydroxyalkyl alkylammonium chloride	Proprietary	No information available

#### 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Hydroxyalkyl alkylammonium chloride	Proprietary	No information available

#### 12.4. Mobility in soil

No information available

#### 12.5. Results of PBT and vPvB assessment

No information available.

#### 12.6. Other adverse effects

No information available

### 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. Contaminated packaging may be

disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging

into commercial waste collection.

#### 14. TRANSPORT INFORMATION

**US DOT** 

UN Number: Not restricted UN Proper Shipping Name: Not restricted

**Transport Hazard Class(es):** Not applicable **Packing Group:** Not applicable

**US DOT Bulk** 

DOT (Bulk) Not applicable

Canadian TDG ul0

UN Number: Not restricted Not restricted Transport Hazard Class(es): Not applicable Packing Group: Not applicable

IMDG/IMO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:

Not restricted
Not restricted
Not applicable
Not applicable

IATA/ICAO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:

Not restricted
Not restricted
Not applicable
Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Special Precautions for User: 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 The EPA Reportable Spill Quantity is well above quantities required for any

expected use of this product.

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

WHMIS Hazard Class D2A Very Toxic Materials

D2B Toxic Materials

## 16. OTHER INFORMATION

# The following sections have been revised since the last issue of this SDS Not applicable

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

representative.

For questions about the Safety Data Sheet for this or other Halliburton products,

contact Chemical Stewardship at 1-580-251-4335.

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