## **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: DCA-17003

Revision Date: 19-Dec-2013

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: DCA-17003
Synonyms: None
Chemical Family: Blend
Application: Inhibitor

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 (w/w)	ACGIH TLV-TWA	OSHA PEL-TWA
Aldol	107-89-1	30 - 60%	Not applicable	Not applicable
Crotonaldehyde	123-73-9	1 - 5%	Not applicable	2 ppm
Acetaldehyde	75-07-0	1 - 5%	25 ppm	200 ppm

#### 3. HAZARDS IDENTIFICATION

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

and other central nervous system effects. May be harmful if swallowed. Potential

carcinogen. 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

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#### 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): 65
Flash Point/Range (C): 18
Flash Point Method: PMCC

Autoignition Temperature (F):

Autoignition Temperature (C):

Flammability Limits in Air - Lower (%):

Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

Fire Extinguishing Media Water fog, carbon dioxide, foam, dry chemical.

Special Exposure Hazards May be ignited by heat, sparks or flames. Use water spray to cool fire exposed

surfaces. Closed containers may explode in fire. Decomposition in fire may

produce toxic gases.

**Special Protective Equipment** 

for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required

for fire fighting personnel.

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

#### 6. 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 non-sparking tools. 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. Wash hands

after 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. Product has a shelf life of 36 months.

# 8. 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.

DCA-17003 Page 2 of 6 Other Precautions

Eyewash fountains and safety showers must be easily accessible.

# PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

Color: Clear colorless to pale yellow

Odor: Pungent pH: 5-7 Specific Gravity @ 20 C (Water=1): 1.053 Density @ 20 C (lbs./gallon): 8.77

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

**Boiling Point/Range (F):** 212 **Boiling Point/Range (C):** 100 Freezing Point/Range (F): -22 Freezing Point/Range (C): -30 Vapor Pressure @ 20 C (mmHg): 0.1 Vapor Density (Air=1): 3.04

**Percent Volatiles:** Not Determined **Evaporation Rate (Butyl Acetate=1):** Not Determined Miscible

Solubility in Water (g/100ml):

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

Viscosity, Dynamic @ 20 C (centipoise): 2-12

Viscosity, Kinematic @ 20 C (centistokes): Not Determined Partition Coefficient/n-Octanol/Water: Not Determined Molecular Weight (g/mole): Not Determined

#### 10. STABILITY AND REACTIVITY

Stable **Stability Data:** 

**Hazardous Polymerization:** Will Not Occur

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

Incompatibility (Materials to

Avoid)

Strong oxidizers. Strong alkalis. Strong acids.

**Hazardous Decomposition** 

**Products** 

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

**Additional Guidelines** Not Applicable

#### **TOXICOLOGICAL INFORMATION** 11.

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

Sympotoms related to exposure

**Acute Toxicity** 

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

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

speech, giddiness and unconsciousness.

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

May be absorbed through the skin and contribute to the symptoms listed under ingestion. **Skin Contact** 

May cause skin defatting with prolonged exposure. May cause skin irritation.

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

and diarrhea.

**Chronic Effects/Carcinogenicity** This product contains a potential carcinogen.

Toxicology data for the components

- the trial of the							
Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation			
Aldol	107-89-1	2180 mg/kg (Rat)	140 mg/kg (Rabbit)	No data available			
Crotonaldehyde	123-73-9	206 mg/kg (Rat)	380 mg/kg(Rabbit)380 μL/kg (Rabbit)	85 ppm (Rat) 4 h 0.2 mg/L (Rat) 4 h 300 mg/m³ (Rat) 4 h			
Acetaldehyde	75-07-0	1930 mg/kg (Rat)	No data available	13300 ppm (Rat) 4 h			

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicological Information**

**Ecotoxicity Product** 

Acute Fish Toxicity: LC50(96hr): 237.1 mg/l (Scophthalmus maximus, Juvenile turbot)

Acute Crustaceans Toxicity: TLM48: 14.4 mg/l (Acartia tonsa)

Acute Algae Toxicity: EC50: 37.0 mg/l (Skeletonema costatum)

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Aldol	107-89-1	No information available	No information available	No information available	No information available
Crotonaldehyde	123-73-9	No information available	No information available	No information available	No information available
Acetaldehyde	75-07-0	No information available	No information available	No information available	No information available

#### 12.2 Persistence and degradability

No information available

#### 12.3 Bioaccumulative potential

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

## 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**

UN1992, Flammable Liquid, Toxic, N.O.S. (Contains Acetaldehyde, Aldol) , 3 , (6.1) , II , (18.3 C) NAERG 131

#### Canadian TDG

Flammable Liquid, Toxic, N.O.S. (Contains Acetaldehyde, Aldol), 3, (6.1), UN1992, II, (18.3 C)

#### **ADR**

UN1992, Flammable Liquid, Toxic, N.O.S (Contains Acetaldehyde, Aldol), 3, (6.1), II

#### Air Transportation

#### ICAO/IATA

UN1992, Flammable Liquid, Toxic, N.O.S, 3, (6.1), II (Contains Acetaldehyde, Aldol)

#### Sea Transportation

#### **IMDG**

UN1992, Flammable Liquid, Toxic, N.O.S (Contains Acetaldehyde, Aldol), 3, (6.1), II, (18.3 C) EmS F-E, S-D

## Other Transportation Information

Labels: Flammable Liquid

Toxic

#### 15. REGULATORY INFORMATION

## **US Regulations**

All components listed on inventory or are exempt. **US TSCA 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:

Acetaldehyde//75-07-0

**EPA CERCLA/Superfund Reportable Spill Quantity**  EPA Reportable Spill Quantity is 228 Gallons based on Crotonaldehyde (CAS:

123-73-9).

**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** 

The California Proposition 65 regulations apply to this product.

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 B2 Flammable Liquids

D1A Very Toxic Materials D2A Very Toxic Materials E Corrosive Material

## 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 Compliance at 1-580-251-4335.

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