# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** DCA-31002

**Revision Date:** 09-Dec-2013

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** DCA-31002 Synonyms: None

**Chemical Family:** Blend Application: Anti-sludging Agent

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

# COMPOSITION/INFORMATION ON INGREDIENTS

| CAS Number | PERCENT (w/w) | ACGIH TLV-TWA                            | OSHA PEL-TWA                        |
|------------|---------------|--|-------------------------------------|
| 27176-87-0 | 60 - 100%     | Not applicable                           | Not applicable                      |
| 67-63-0    |               |  | 400 ppm                             |
| 2          | 27176-87-0    | 27176-87-0 60 - 100%<br>67-63-0 10 - 30% | 27176-87-0 60 - 100% Not applicable |

# HAZARDS IDENTIFICATION

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

> other central nervous system effects. May be harmful if swallowed. May be absorbed through the skin. May cause allergic skin reaction. Repeated

overexposure may cause liver and kidney effects. Flammable.

#### 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.

In case of contact, or suspected contact, immediately flush eyes with plenty of **Eyes** 

water for at least 15 minutes and get medical attention immediately after flushing.

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek Ingestion

medical attention. Never give anything by mouth to an unconscious person.

Notes to Physician Not Applicable

## 5. FIRE FIGHTING MEASURES

Flash Point/Range (F): 95
Flash Point/Range (C): 35
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. Closed containers may explode in fire.

Use water spray to cool fire exposed surfaces. 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 3, Flammability 3, Reactivity 0
HMIS Ratings: Health 3, 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 in a well ventilated area. Keep container closed when not in use. Store away

from alkalis. Store away from oxidizers. Keep from heat, sparks, and open flames.

Product has a shelf life of 24 months. Store locked up.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

without good cross ventilation.

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

**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: Liquid
Color: Dark brown
Odor: Alcohol
pH: 1
Specific Gravity @ 20 C (Water=1): 1.03
Density @ 20 C (Ibs./gallon): 8.58

Bulk Density @ 20 C (lbs/ft3):

Boiling Point/Range (F):

Boiling Point/Range (C):

Freezing Point/Range (F):

Freezing Point/Range (C):

Not Determined

Not Determined

Not Determined

Not Determined

Not Determined

Vapor Pressure @ 20 C (mmHg): 36

Vapor 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):

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** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers. Strong alkalis.

**Hazardous Decomposition** 

**Products** 

Oxides of sulfur. Carbon monoxide and carbon dioxide.

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:

**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 eye burns.

Skin Contact Causes severe burns. May cause an allergic skin reaction. May be absorbed through the

skin and produce effects similar to those caused by inhalation and/or ingestion.

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.

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

Toxicology data for the components

| Substances                   | CAS Number | LD50 Oral                              | LD50 Dermal                               | LC50 Inhalation    |
|------------------------------|------------|--|---|--------------------|
| Dodecylbenzene sulfonic acid | 27176-87-0 | 500 mg/kg ( Rat )                      | No data available                         | No data available  |
| Isopropanol                  | 67-63-0    | 4396 mg/kg (Rat)<br>3600 mg/kg (mouse) | 12800 mg/kg (Rat)<br>12870 mg/kg (Rabbit) | 72.6 mg/L (Rat)4 h |

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicological Information**

## **Ecotoxicity Product**

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

**Ecotoxicity Substance** 

| Substances                      | CAS Number | Toxicity to Algae                                     | Toxicity to Fish   | Toxicity to<br>Microorganisms   | Daphnia Magna (Water<br>Flea)       |
|---------------------------------|------------|---|--|---------------------------------|-------------------------------------|
| Dodecylbenzene<br>sulfonic acid | 27176-87-0 | EC50: 29 mg/L<br>(Pseudokirchneriella<br>subcapitata) | LC50: 10.8 mg/L<br>(Oncorhynchus mykiss);<br>LC50: 3.5 - 10 mg/L<br>(Brachydanio rerio);<br>LC50: 1 mg/L (Gadus<br>morhua) | LC50: 0.9 mg/L<br>(Microcystis) | EC50: 5.88 mg/L<br>(Daphnia magna)  |
| Isopropanol                     | 67-63-0    | EC50: > 1000<br>mg/l(Desmodesmus<br>subspicatus)      | LC50: 9640 mg/l<br>(Pimephales promelas)   | No information available        | EC50: 13299 mg/l<br>(Daphnia magna) |

## 12.2 Persistence and degradability

Product is biodegradable

#### 12.3 Bioaccumulative potential

Does not bioaccumulate

#### 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**

Incineration recommended in approved incinerator according to federal, state, and local regulations. Substance should NOT be deposited into a sewage facility.

#### **Contaminated Packaging**

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

# **Land Transportation**

#### **DOT**

UN2924, Flammable Liquid, Corrosive, N.O.S. (Contains Isopropanol, Dodecylbenzenesulfonic Acid), 3, (8), III, (35 C)
NAERG 132

#### **Canadian TDG**

Flammable Liquid, Corrosive, N.O.S. (Contains Isopropanol, Dodecylbenzenesulfonic Acid), 3, (8), UN2924, III, (35 C)

#### **ADR**

UN2924, Flammable Liquid, Corrosive, N.O.S (Contains Isopropanol, Dodecylbenzenesulfonic Acid), 3, (8), III

# **Air Transportation**

#### ICAO/IATA

UN2924, Flammable Liquid, Corrosive, N.O.S., 3., (8), III (Contains Isopropanol, Dodecylbenzenesulfonic Acid)

# Sea Transportation

#### **IMDG**

UN2924, Flammable Liquid, Corrosive, N.O.S (Contains Isopropanol, Dodecylbenzenesulfonic Acid), 3, (8), III, (35 C) EmS F-E, S-C

## Other Transportation Information

Labels: Flammable Liquid 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 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

EPA Reportable Spill Quantity is 155 Gallons based on Dodecylbenzene sulfonic

acid (CAS: 27176-87-0).

**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 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** 

B2 Flammable Liquids E Corrosive Material 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 Compliance at 1-580-251-4335.

**Disclaimer Statement** 

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