# **HALLIBURTON**

# MATERIAL SAFETY DATA SHEET

Product Trade Name: DCA-19001

Revision Date: 05-Mar-2014

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE

COMPANY/UNDERTAKING

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, Non-Dangerous Goods according

to the criteria of ADG.

Manufacturer/Supplier Halliburton Australia Pty. Ltd.

15 Marriott Road

Jandakot WA 6164 Australia

ACN Number: 009 000 775

Telephone Number: 61 (08) 9455 8300 Fax Number: 61 (08) 9455 5300

**Product Emergency Telephone** 

Australia: 08-64244950

Papua New Guinea: 05 1 281 575 5000

NewZealand: 06-7559274

Fire, Police & Ambulance - Emergency Telephone

Australia: 000

Papua New Guinea: 000

New Zealand: 111

#### **Identification of Substances or Preparation**

Product Trade Name: DCA-19001
Synonyms: None
Chemical Family: Mineral
UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code: None Allocated

Poisons Schedule: S5

Application: Crosslinker

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

# 2. HAZARDS IDENTIFICATION

Statement of Hazardous Nature Hazardous according to the criteria of NOHSC, Non-Dangerous Goods according

to the criteria of ADG.

Hazard Overview May cause eye, skin, and respiratory irritation. May be harmful if swallowed.

Potential reproductive hazard.

Classification Xn - Harmful.

Risk Phrases R60 May impair fertility.

R61 May cause harm to the unborn child.

**Safety Phrases** 

S36/37 Wear suitable protective clothing and gloves.

**HSNO Classification** 6.1E (Oral) Acutely Toxic Substances

6.4A Irritating to the eye

6.8B Human reproductive or developmental toxicants 9.1D Slightly harmful in the aquatic environment

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT (w/w) Australia NOHSCNew Zealand			ACGIH TLV-TWA
				WES	
Disodium octaborate tetrahydrate	12008-41-2	60 - 100%	Not applicable	Not applicable	2 mg/m <sup>3</sup>

Non-Hazardous Substance to Total of 100%

## 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

# 5. FIRE FIGHTING MEASURES

### **Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

#### Extinguishing media which must not be used for safety reasons

None known.

for Fire-Fighters

Special Exposure Hazards Not applicable.

Special Protective Equipment

Full protective clothing and approved self-contained breathing apparatus required

for fire fighting personnel.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary** 

Measures

Use appropriate protective equipment. Avoid creating and breathing dust.

**Environmental Precautionary** 

Measures

None known.

Procedure for Cleaning /

**Absorption** 

Scoop up and remove.

#### 7. HANDLING AND STORAGE

**Handling Precautions** Avoid creating or inhaling dust.

**Storage Information** Store in a cool, dry location. Product has a shelf life of 60 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**Respiratory Protection**Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Dust/mist respirator. (N95, P2/P3)

**Hand Protection** Normal work gloves.

**Skin Protection** Normal work coveralls.

**Eye Protection** Dust proof goggles.

Other Precautions None known.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Color: White
Odor: Odorless
pH: 7.3
Specific Gravity @ 20 C (Water=1): 1.7

Density @ 20 C (kg/l): Not Determined Not Determined Bulk Density @ 20 C (kg/M3): **Boiling Point/Range (C):** Not Determined Freezing Point/Range (C): Not Determined Not Determined Pour Point/Range (C): Flash Point/Range (C): Not Determined Flash Point Method: Not Determined **Autoignition Temperature (C):** Not Determined Flammability Limits in Air - Lower (g/m<sup>3</sup>): Not Determined Flammability Limits in Air - Lower (%): Not Determined

Flammability Limits in Air - Lower (%):

Flammability Limits in Air - Upper (g/m³):

Flammability Limits in Air - Upper (%):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Percent Volatiles:

Evaporation Rate (Butyl Acetate=1):

Not Determined

Not Determined

Not Determined

Solubility in Water (g/100ml): 9.5

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

Not Determined

Not Determined

DCA-19001 Page 3 of 6 Viscosity, Kinematic @ 20 C (centistokes):

Partition Coefficient/n-Octanol/Water:

Molecular Weight (g/mole):

Decomposition Temperature (C):

Not Determined

Not Determined

Not Determined

# 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None known.

Incompatibility (Materials to

Avoid)

None known.

**Hazardous Decomposition** 

**Products** 

None known.

Additional Guidelines Not Applicable

## 11. TOXICOLOGICAL INFORMATION

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

Sympotoms related to exposure

**Acute Toxicity** 

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

Ingestion May cause abdominal pain, vomiting, nausea, and diarrhea.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause reproductive system damage. Prolonged or

repeated exposure may cause embryo and fetus toxicity.

**LD50 Oral:** 2000 mg/kg; (rat)

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Disodium octaborate tetrahydrate	12008-41-2	2 g/kg (Rat) 3450 mg/kg (Rat) 4080 mg/kg (Rat) 2550 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 2.03 mg/L (Rat) 5h > 2.01 mg/L (Rat) 4h (saturation)

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicological Information**

**Ecotoxicity Product** 

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

**Ecotoxicity Substance** 

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
	1			Microorganisms	

Disodium octaborate	12008-41-2	EC50(3d): 52.5 mg/L	LC50(96h): 74 mg/L	EC50(3h): > 175 mg/L	LC50(96h): 25.05 - 80.6
tetrahydrate		(growth rate)	(Limanda limanda)	(activated sludge)	mg/L (Litopenaeus
		(Pseudokirchnerella	(Similar substance)		vannamei) (Similar
		subcapitata) (Similar	LC50(96h): 280 mg/L		substance)
		substance)	(Gila elegans)		LC50(48h): 133 mg/L
		EC50(72h): 66 mg/L	LC50(96h): 447 mg/L		(Daphnia magna) (Similar
		(growth rate)	(Oncorhynchus kisutch)		substance)
		(Phaeodactylum	NOEC(32d): 11.2 mg/L		NOEC(28d): 32 mg/L
		tricornutum) (Similar	(Pimephales promelas)		(Chironomus riparius)
		substance)	(Similar substance)		(Similar substance)
		i i	NOEC(34d): 5.6 mg/L		NOEC(14d): 18 mg/L
			(Danio rerio) (Similar		(Daphnia magna) (Similar
			substance)		substance)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

#### 12.3 Bioaccumulative potential

No information available

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Substances	Log Pow
Disodium octaborate tetrahydrate	BCF 121 L/kg (filamentous algae)
, i	BAF 23 L/kg (plankton)
	BAF 21 L/kg (Chironomids)
	BAF 23 L/kg (amphipods)
	BAF 13 L/kg (crayfish)
	BAF 8 L/kg (bluegill and largemouth bass) (Similar substance)

#### 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**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**

**ADR** 

Not restricted

# **Air Transportation**

ICAO/IATA

Not restricted

**Sea Transportation** 

**IMDG** 

Not restricted

**Other Transportation Information** 

Labels: None

## 15. REGULATORY INFORMATION

# **Chemical Inventories**

Australian AICS Inventory New Zealand Inventory of

Chemicals

All components listed on inventory or are exempt. All components listed on inventory or are exempt.

US TSCA Inventory EINECS Inventory

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

Classification Xn - Harmful.

Risk Phrases R60 May impair fertility.

R61 May cause harm to the unborn child.

**Safety Phrases** 

S36/37 Wear suitable protective clothing and gloves.

### 16. OTHER INFORMATION

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

#### Contact

**Australian Poisons Information Centre** 

24 Hour Service: - 13 11 26

Police or Fire Brigade: - 000 (exchange): - 1100

**New Zealand National Poisons Centre** 

0800 764 766

**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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sole responsibility of the user.

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