## **HALLIBURTON**

## MATERIAL SAFETY DATA SHEET

Product Trade Name: DCA-32009

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-32009
Synonyms: None
Chemical Family: Blend
UN Number: None

Dangerous Goods Class: None Subsidiary Risk: None

Hazchem Code: None Allocated Poisons Schedule: None Allocated

Application: Cleaner

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 cause headache, dizziness,

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

Combustible

Classification Xn - Harmful.

**Risk Phrases** 

R20/21/22 Harmful by inhalation, by contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases S2 Keep out of reach of children.

S7 Keep container tightly closed.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

S24/25 Avoid contact with skin and eyes.

**HSNO Classification** 3.1D Flammable Liquids - Low hazard

6.1D (Oral) Acutely Toxic Substances6.1E (Dermal) Acutely Toxic Substances6.1D (Inhalation) Acutely Toxic Substances

6.3A Irritating to the skin6.4A Irritating to the eye

9.1D Slightly harmful in the aquatic environment

9.3C Harmful to terrestrial vertebrates

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT (W/W)	Australia NOHSC	New Zealand	ACGIH ILV-IWA
				WES	
Oxylated alkylphenols	Proprietary	10 - 30%	Not applicable	Not applicable	Not applicable
Alkyl hexanol	Proprietary	10 - 30%	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 266 mg/m <sup>3</sup>	TWA: 50 ppm
Isopropanol	67-63-0	10 - 30%	TWA: 983 mg/m <sup>3</sup> STEL: 500 ppm	STEL: 500 ppm STEL: 1230 mg/m³ TWA: 400 ppm TWA: 983 mg/m³	TWA: 200 ppm STEL: 400 ppm
Ethylene glycol monobutyl ether	111-76-2	30 - 60%	TWA: 20 ppm TWA: 96.9 mg/m³ STEL: 50 ppm STEL: 242 mg/m³	TWA: 25 ppm TWA: 121 mg/m³	TWA: 20 ppm

Non-Hazardous Substance to Total of 100%

#### 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. Destroy or properly dispose of contaminated shoes.

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** If swallowed, induce vomiting immediately by giving two glasses of water and

sticking fingers down throat; never give anything to an unconscious person. Get

medical attention.

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.

Special Exposure Hazards

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.

## 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.

**Storage Information** Keep from heat, sparks, and open flames. Store in a cool well ventilated area.

Keep container closed when not in use. Store locked up. Product has a shelf life of

24 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.

In high concentrations, supplied air respirator or a self-contained breathing

apparatus.

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: Clear light amber

 Odor:
 Sweet

 pH:
 8

 Specific Gravity @ 20 C (Water=1):
 0.92

 Density @ 20 C (kg/l):
 0.918

Bulk Density @ 20 C (kg/M3): Not Determined

Boiling Point/Range (C): 136

Freezing Point/Range (C):

Pour Point/Range (C):

Not Determined

Not Determined

Flash Point/Range (C): 79

Flash Point Method:

Autoignition Temperature (C):

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

Not Determined

Not Determined

Flammability Limits in Air - Lower (%): 1.5

Flammability Limits in Air - Upper (g/m³): Not Determined

Flammability Limits in Air - Upper (%): 10.6 Vapor Pressure @ 20 C (mmHg): 0.8

Vapor Density (Air=1): Not Determined

Percent Volatiles: 88

Evaporation Rate (Butyl Acetate=1): Not Determined

Solubility in Water (g/100ml): Soluble

Solubility in Solvents (g/100ml):

VOCs (g/l):

Viscosity, Dynamic @ 20 C (centipoise):

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** Keep away from heat, sparks and flame.

Incompatibility (Materials to

Avoid)

Strong oxidizers. Strong alkalis. Amphoteric metals such as aluminum,

magnesium, lead, tin, or zinc.

**Hazardous Decomposition** 

**Products** 

Toxic fumes. 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 May cause 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. May cause corneal injury.

**Skin Contact** Harmful if absorbed through the skin. May cause moderate skin irritation.

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

damage. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation and

central nervous system depression.

Chronic Effects/Carcinogenicity Prolonged or repeated exposure may cause liver, kidney and blood effects. Prolonged or

repeated exposure may cause embryo and fetus toxicity.

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oxylated alkylphenols	Proprietary	No data available	No data available	No data available
Alkyl hexanol	Proprietary	5190 µL/kg (Rat) 1516-2774 mg/kg (Rat) 1480 mg/kg (Rat) 600 mg/kg (Guinea pig)	5660 μL/kg(Rabbit) 2520 mg/kg(Rabbit) 1980 mg/kg (Rabbit)	227 ppm (Rat) 6h
Isopropanol	67-63-0	4396 mg/kg (Rat) 5840 mg/kg (Rat) 3600 mg/kg (Mouse)	12800 mg/kg (Rat 12870 mg/kg (Rabbit) 16.4 mL/kg (Rabbit)	72.6 mg/L (Rat) 4h >1000 ppm(24.6 mg/L) (Rat)
Ethylene glycol monobutyl ether	111-76-2	470 mg/kg (Rat) 1414 mg/kg (Guinea pig) 1746 mg/kg (Rat) 320 mg/kg (Rabbit) 530 mg/kg (Rat) 560 mg/kg (Rat) 3000 mg/kg (Rat) 2400 (Rat)	220 mg/kg (Rabbit) 2270 mg/kg (Rat) 200 mg/kg (Guinea pig) >2000 mg/kg (Rabbit) 841 mg/kg (Rabbit) 435 mg/kg (Rabbit) >2000 mg/kg (Guinea pig) >2000 mg/kg (Rat) 100 mg/kg (Rabbit) 207 mg/kg (Guinea pig) 400-500 mg/kg (Rabbit)	450 ppm (Rat) 4h 2.174 mg/L (Rat) 4h 2.21 mg/L (Rat) 4h 450-486 ppm (Rat) 4h 925 ppm (Rat) 4h >633 ppm (Guinea pig) 1h

## 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 Microorganisms	Toxicity to Invertebrates
Oxylated alkylphenols	Proprietary	No information available	No information available	No information available	No information available
Alkyl hexanol	Proprietary	EC50: 11.5 mg/L (Desmodesmus subspicatus)	LC50: 32-37 mg/L (Oncorhynchus mykiss) LC50: 10 - 33 mg/L (Lepomis macrochirus)	No information available	TLM96: > 10000 mg/l (Crangon crangon) EC50 39 mg/L (Daphnia magna)
Isopropanol	67-63-0	EC50: > 1000 mg/l(Desmodesmus subspicatus) EC50(7d): 1800 mg/L (mean extinction value) (Scenedesmus quadricauda)	LC50: 9640 mg/l (Pimephales promelas)	TT(16h): 1050 mg/L (Pseudomonas putida)	EC50: 13299 mg/l (Daphnia magna) EC50(24h): > 10000 mg/L (Daphnia magna)

Ethylene glycol	111-76-2	EC50: 839.56 mg/l	LC50: > 1000 mg/l	TT/EC3(48h): 463 mg/L	EC50: >1000 mg/L
monobutyl ether		(Skeletonema costatum)	(Scophthalmus maximus	(Uronema parduzci)	(Daphnia magna)
		EC50(72h): 911 mg/L	juvenile)	TT/EC3(72h): 73 mg/L	EC50 (48h): 1800 mg/L
		(biomass)	LC50(96h): 1474 mg/L	(Entosiphon sulcatum)	(Daphnia magna)
		EC50: > 500 mg/l	(Oncorhynchus mykiss)	TT/EC3(16h): 700 mg/L	EC50: 1875 mg/l
		(Scenedesmus	NOEC(21d): > 100mg/L	(Pseudomonas putida)	(Daphnia magna)
		subspicatus)	(Danio rerio)	, ,	NOEC(21d)(reproduction)
		NOEC(72h): 88 mg/L			: 100 mg/L (Daphnia
		(biomass)(Pseudokirchne			magna)
		rella subcapitata)			]

#### 12.2 Persistence and degradability

No information available

Substances	Persistence and Degradability
Isopropanol	Readily biodegradable (53% @ 5d)
Ethylene glycol monobutyl ether	Readily biodegradable (75-88% @ 28d)

#### 12.3 Bioaccumulative potential

No information available

Substances	Log Pow
Isopropanol	0.05 @ 25°C
Ethylene glycol monobutyl ether	0.81

## 12.4 Mobility in soil

No information available

#### 12.5 Results of PBT and vPvB assessment

No information available.

Substances	PBT and vPvB assessment
Isopropanol	Not PBT/vPvB

#### 12.6 Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method**Disposal should be made in accordance with federal, state, and local regulations.

Substance should NOT be deposited into a sewage facility.

**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

US TSCA Inventory EINECS Inventory

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

All components listed on inventory or are exempt. This product does not comply with EINECS

Classification Xn - Harmful.

**Risk Phrases** 

R20/21/22 Harmful by inhalation, by contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases S2 Keep out of reach of children.

S7 Keep container tightly closed.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S24/25 Avoid contact with skin and eyes.

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