## **HALLIBURTON**

## MATERIAL SAFETY DATA SHEET

Product Trade Name: CT-ARMOR

Revision Date: 24-Apr-2013

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: CT-ARMOR
Synonyms: None
Chemical Family: Mineral oil
UN Number: None
Dangerous Goods Class: None
Subsidiary Risk: None

Hazchem Code:None AllocatedPoisons Schedule:None AllocatedApplication:Corrosion Inhibitor

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	Australia NOHSC	New Zealand WES	ACGIH TLV-TWA
Sodium sulfonate	68608-26-4	5 - 10%	Not applicable	Not applicable	Not applicable

2. COMPOSITION/INFORMATION ON INGREDIENTS									
Hydrotreated heavy naphthenic distillate	64742-52-5	10 - 30%	Not applicable	Not applicable	Not applicable				
Mineral oil	Proprietary	60 - 100%	- 3	STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>				

#### Non-Hazardous Substance to Total of 100%

## 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.

**Risk Phrases** R45 May cause cancer.

**HSNO Classification** Not Determined

#### **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.

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

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

## FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must None known.

not be used for safety reasons

Decomposition in fire may produce toxic gases. **Special Exposure Hazards** 

Fire-Fighters

Special Protective Equipment for Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

## **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.

## HANDLING AND STORAGE

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

> CT-ARMOR Page 2 of 6

Storage Information Store away from oxidizers. Store in a cool well ventilated area. Keep container

closed when not in use. Product has a shelf life of 24 months.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

without good cross ventilation.

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

respirator is recommended:

Organic vapor respirator with a dust/mist filter. (A2P2/P3)

**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:

Color:
Clear brown
Odor:
Mild aromatic
PH:
Not Determined

**Specific Gravity @ 20 C (Water=1):** 0.86 **Density @ 20 C (kg/l):** 0.86

Bulk Density @ 20 C (kg/m³):Not DeterminedBoiling Point/Range (C):Not DeterminedFreezing Point/Range (C):Not DeterminedPour Point/Range (C):Not Determined

Flash Point/Range (C): 126
Flash Point Method: PMCC

Autoignition Temperature (C):Not DeterminedFlammability Limits in Air - Lower (g/m³):Not DeterminedFlammability Limits in Air - Lower (%):Not DeterminedFlammability Limits in Air - Upper (g/m³):Not DeterminedFlammability Limits in Air - Upper (%):Not Determined

Vapor Pressure @ 20 C (mmHg): 0.008

Vapor Density (Air=1):Not DeterminedPercent Volatiles:Not DeterminedEvaporation Rate (Butyl Acetate=1):Not DeterminedSolubility in Water (g/100ml):Insoluble

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

## 10. STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid None anticipated

CT-ARMOR Page 3 of 6 Incompatibility (Materials to

Avoid)

Strong oxidizers.

**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

Inhalation

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time,

slurred speech, giddiness and unconsciousness.

**Skin Contact** May cause skin defatting with prolonged exposure. May cause skin irritation.

**Eye Contact** May cause eye irritation.

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

nausea, and diarrhea. Aspiration into the lungs may cause chemical pneumonitis

including coughing, difficulty breathing, wheezing, coughing up blood and

pneumonia, which can be fatal.

Aggravated Medical Conditions None known.

Chronic Effects/Carcinogenicity Contains petroleum distillates which have been shown to cause skin cancer in

laboratory animals.

Other Information None known.

**Toxicity Tests** 

Oral Toxicity: Not determined

**Dermal Toxicity:** Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity Not determined

Genotoxicity: Not determined

Reproductive /

**Developmental Toxicity:** 

Not determined

## 12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air) Not determined

Persistence/Degradability Not determined

Bio-accumulation Not determined

CT-ARMOR Page 4 of 6

## **Ecotoxicological Information**

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

**Chemical Fate Information** Not determined Other Information Not applicable

## **DISPOSAL CONSIDERATIONS**

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

Incineration recommended in approved incinerator according to federal, state, and

local regulations.

Follow all applicable national or local regulations. **Contaminated Packaging** 

#### TRANSPORT INFORMATION

## **Land Transportation**

**ADR** 

Not restricted

## Air Transportation

ICAO/IATA

Not restricted

## **Sea Transportation**

**IMDG** 

Not restricted

## Other Transportation Information

Labels: None

## 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.

This product does not comply with NZIOC

All components listed on inventory or are exempt.

This product, and all its components, complies with EINECS

Classification - Toxic.

**Risk Phrases** R45 May cause cancer.

**Safety Phrases** S53 Avoid exposure - obtain special instructions before use.

S45 In case of accident or if you feel unwell, seek medical advice immediately.

**CT-ARMOR** Page 5 of 6

## 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.

**Disclaimer Statement** This information is furnished without warranty, expressed or implied, as to accuracy

or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of

the user.

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