

# **MATERIAL SAFETY DATA SHEET**

Product Trade Name: OFA-2 FOAMING AGENT

**Revision Date:** 

02-Jan-2013

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

**Statement of Hazardous Nature** Hazardous according to the criteria of NOHSC, 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:	OFA-2 FOAMING AGENT
Synonyms:	None
Chemical Family:	Blend
UN Number:	, UN1223
Dangerous Goods Class:	3
Subsidiary Risk:	None
Hazchem Code:	3[Y]
Poisons Schedule:	S5
Application:	Foaming Agent
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
Fluoropolymer	Proprietary	10 - 30%	2.5 mg/m <sup>3</sup>	Not applicable	Not applicable
Kerosene	8008-20-6	80-85	Not applicable	Not applicable	TWA: 200 mg/m <sup>3</sup>

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#### 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. Combustible. **Risk Phrases** None R10 Flammable. Not Determined **HSNO Classification FIRST AID MEASURES** 4. 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. In case of contact, immediately flush skin with plenty of soap and water for at least 15 Skin 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 Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration. **Notes to Physician** Not Applicable FIRE FIGHTING MEASURES 5. 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 Measure	<b>s</b> 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.

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#### 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	Neoprene gloves. Polyvinylchloride 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: Light yellow Odor: Mild kerosene pH: 7 Specific Gravity @ 20 C (Water=1): 0.84 Density @ 20 C (kg/l): 0.838 Bulk Density @ 20 C (kg/m<sup>3</sup>): **Boiling Point/Range (C):** Freezing Point/Range (C): -46 Pour Point/Range (C): Flash Point/Range (C): 56 **Flash Point Method:** Autoignition Temperature (C): Flammability Limits in Air - Lower (g/m<sup>3</sup>): Flammability Limits in Air - Lower (%): Flammability Limits in Air - Upper (g/m<sup>3</sup>): Flammability Limits in Air - Upper (%): Vapor Pressure @ 20 C (mmHg): 70 Vapor Density (Air=1): **Percent Volatiles:** 85 Evaporation Rate (Butyl Acetate=1): Solubility in Water (g/100ml): 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):** 

#### 10. **STABILITY AND REACTIVITY**

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid	None anticipated

Not Determined Insoluble Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined Not Determined

Incompatibility (Materials to Avoid)	Strong oxidizers.
Hazardous Decomposition Products	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 be absorbed through the skin and contribute to the symptoms listed under ingestion. May cause mild skin irritation.
Eye Contact	May cause mild eye irritation.
Ingestion	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	Liver and kidney disorders.
Chronic Effects/Carcinogenicity	Prolonged or repeated exposure may cause kidney damage. Contains kerosene, a suspect animal skin carcinogen. A skin painting study with kerosene in mice has produced positive skin tumors.
Other Information	None known.
Toxicity Tests	
Oral Toxicity:	LD50: > 11,000 mg/kg (Rat)
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

#### **Ecotoxicological Information**

Acute Fish Toxicity:	Not determined
Acute Crustaceans Toxicity	:Not determined
Acute Algae Toxicity:	Not determined
Chemical Fate Information	Not determined

**Other Information** 

#### 13. DISPOSAL CONSIDERATIONS

Disposal method Disposal should be made in accordance with rederal, state, and local regulation	Disposal Method	Disposal should be made in accordance with federal, state, and local regulation
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#### **Contaminated Packaging** Follow all applicable national or local regulations.

Not applicable

### 14. TRANSPORT INFORMATION

#### Land Transportation

#### ADR

UN1223, Kerosene Solution, 3, III

#### **Air Transportation**

#### ICAO/IATA

UN1223, Kerosene Solution, 3, III

#### **Sea Transportation**

#### IMDG

UN1223,Kerosene Solution, 3, III, (56 C) EmS F-E, S-E

#### **Other Transportation Information**

Labels:

Flammable Liquid

## 15. REGULATORY INFORMATION

#### **Chemical Inventories**

Australian AICS Inventory New Zealand Inventory of Chemicals	All components listed on inventory or are exempt. This product does not comply with NZIOC
US TSCA Inventory EINECS Inventory	All components listed on inventory or are exempt. This product does not comply with EINECS
Classification	Not Classified
Risk Phrases	None R10 Flammable.

**Safety Phrases** 

None

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# 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***		

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