

## MATERIAL SAFETY DATA SHEET

**Product Trade Name:** GasPerm 1100

**Revision Date:** 25-Apr-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:** GasPerm 1100  
**Synonyms:** None  
**Chemical Family:** Blend  
**UN Number:** , UN1993  
**Dangerous Goods Class:** 3  
**Subsidiary Risk:** None  
**Hazchem Code:** 2[Y]E  
**Poisons Schedule:** S5  
**Application:** Non-ionic Surfactant

**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
Ethanol	64-17-5	10 - 30%	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Citrus, extract	94266-47-4	1 - 5%	Not applicable	Not applicable	Not applicable
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	1 - 5%	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	5 - 10%	TWA: 400 ppm TWA: 983 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup>	STEL: 500 ppm STEL: 1230 mg/m <sup>3</sup> TWA: 400 ppm TWA: 983 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 400 ppm
Methanol	67-56-1	5 - 10%	TWA: 200 ppm TWA: 262 mg/m <sup>3</sup> STEL: 250 ppm STEL: 328 mg/m <sup>3</sup>	STEL: 250 ppm STEL: 328 mg/m <sup>3</sup> TWA: 200 ppm TWA: 262 mg/m <sup>3</sup>	TWA: 200 ppm STEL: 250 ppm

Non-Hazardous Substance to Total of 100%

## 3. HAZARDS IDENTIFICATION

### Hazard Overview

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May cause allergic skin reaction. May be harmful if swallowed. May be harmful if inhaled. May be absorbed through the skin. May cause blindness. Flammable.

### Risk Phrases

R10 Flammable.  
R43 May cause sensitization by skin contact.  
R67 Vapours may cause drowsiness and dizziness.  
R36/38 Irritating to eyes and skin.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### HSNO Classification

Not Determined

## 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

Wash with soap and water. Get medical attention if irritation persists. Remove contaminated clothing and launder before reuse.

### Eyes

Check for and remove contact lenses if present. 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

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. Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

### 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.

<b>Special Exposure Hazards</b>	May be ignited by heat, sparks or flames. Use water spray to cool fire exposed surfaces. Closed containers may explode in fire. Decomposition in fire may produce toxic gases.
<b>Special Protective Equipment for Fire-Fighters</b>	Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautionary Measures</b>	Use appropriate protective equipment. Wear self-contained breathing apparatus in enclosed areas.
<b>Environmental Precautionary Measures</b>	Prevent from entering sewers, waterways, or low areas.
<b>Procedure for Cleaning / Absorption</b>	Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Scoop up and remove. Contain spill with sand or other inert materials.

## 7. HANDLING AND STORAGE

<b>Handling Precautions</b>	Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Avoid breathing mist. Wash hands after use. Launder contaminated clothing before reuse. Ground and bond containers when transferring from one container to another. Do NOT consume food, drink, or tobacco in contaminated areas.
<b>Storage Information</b>	Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use. Terpene containing products should be stored in phenolic-lined metal, stainless steel, PET, or fluorinated plastic containers. Product has a shelf life of 24 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Controls</b>	Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.
<b>Respiratory Protection</b>	<p>If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.</p> <p>Organic vapor respirator. In high concentrations, supplied air respirator or a self-contained breathing apparatus.</p>
<b>Hand Protection</b>	Nitrile gloves. Impervious rubber gloves.
<b>Skin Protection</b>	Rubber apron.
<b>Eye Protection</b>	Chemical goggles; also wear a face shield if splashing hazard exists.
<b>Other Precautions</b>	Eyewash fountains and safety showers must be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Light amber
Odor:	Alcohol
pH:	7
Specific Gravity @ 20 C (Water=1):	0.9368
Density @ 20 C (kg/l):	0.9368
Bulk Density @ 20 C (kg/m <sup>3</sup> ):	Not Determined
Boiling Point/Range (C):	Not Determined
Freezing Point/Range (C):	< -18
Pour Point/Range (C):	Not Determined
Flash Point/Range (C):	21
Flash Point Method:	PMCC
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (g/m <sup>3</sup> ):	Not Determined
Flammability Limits in Air - Lower (%):	0.7
Flammability Limits in Air - Upper (g/m <sup>3</sup> ):	Not Determined
Flammability Limits in Air - Upper (%):	6.1
Vapor Pressure @ 20 C (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	Not Determined
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Soluble
Solubility in Solvents (g/100ml):	Not Determined
VOCs (g/l):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	Not Determined
Viscosity, Kinematic @ 20 C (centistokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined
Molecular Weight (g/mole):	Not Determined
Decomposition Temperature (C):	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)	Iodine pentafluorethylene Strong acids. Strong alkalis. 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.
<u>Symptoms related to exposure</u>	
Inhalation	May cause respiratory irritation. Causes depression and fatigue.
Skin Contact	May cause skin defatting with prolonged exposure. May cause mild skin irritation.
Eye Contact	May cause moderate to severe eye irritation.

<b>Ingestion</b>	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. Ingestion may result in blindness.
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<b>Aggravated Medical Conditions</b>	Eye ailments. Skin disorders.
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<b>Chronic Effects/Carcinogenicity</b>	Repeated overexposure may cause liver and kidney effects.
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<b>Other Information</b>	None known.
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#### **Toxicity Tests**

<b>Oral Toxicity:</b>	Not determined
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<b>Dermal Toxicity:</b>	Not determined
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<b>Inhalation Toxicity:</b>	Not determined
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<b>Primary Irritation Effect:</b>	Not determined
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<b>Carcinogenicity</b>	Not determined
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<b>Genotoxicity:</b>	Not determined
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<b>Reproductive / Developmental Toxicity:</b>	Not determined
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## **12. ECOLOGICAL INFORMATION**

<b>Mobility (Water/Soil/Air)</b>	Not determined
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<b>Persistence/Degradability</b>	Inherently biodegradable
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<b>Bio-accumulation</b>	Not expected to bioaccumulate.
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#### **Ecotoxicological Information**

<b>Acute Fish Toxicity:</b>	May be toxic to aquatic life.
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<b>Acute Crustaceans Toxicity:</b>	May be toxic to aquatic life.
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<b>Acute Algae Toxicity:</b>	Not determined
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<b>Chemical Fate Information</b>	Not determined
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<b>Other Information</b>	Not applicable
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## **13. DISPOSAL CONSIDERATIONS**

<b>Disposal Method</b>	Disposal should be made in accordance with federal, state, and local regulations.
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<b>Contaminated Packaging</b>	Follow all applicable national or local regulations.
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## **14. TRANSPORT INFORMATION**

#### **Land Transportation**

##### **ADR**

UN1993, Flammable Liquid, N.O.S. (Contains Ethanol, Citrus Terpenes), 3, II

## Air Transportation

### ICAO/IATA

UN1993, Flammable Liquid, N.O.S., 3, II  
(Contains Ethanol, Citrus Terpenes)

## Sea Transportation

### IMDG

UN1993, Flammable Liquid, N.O.S. (Contains Ethanol, Citrus Terpenes), 3, II, (21.1 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  
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 does not comply with EINECS

### Classification

Flammable  
Xi - Irritant.  
N - Dangerous For The Environment.

### Risk Phrases

R10 Flammable.  
R43 May cause sensitization by skin contact.  
R67 Vapours may cause drowsiness and dizziness.  
R36/38 Irritating to eyes and skin.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Safety Phrases

S7 Keep container tightly closed.  
S16 Keep away from sources of ignition - No Smoking.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37 Wear suitable gloves.  
S45 In case of accident or if you feel unwell, seek medical advice immediately.  
S60 This material and/or its container must be disposed of as hazardous waste.  
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.  
S24/25 Avoid contact with skin and eyes.  
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.

### **Disclaimer Statement**

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