

# MATERIAL SAFETY DATA SHEET

**Product Trade Name:** PERM A CONFORMANCE ADDITIVE

**Revision Date:** 20-Dec-2012

**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:** PERM A CONFORMANCE ADDITIVE  
**Synonyms:** None  
**Chemical Family:** Acetate  
**UN Number:** , UN2927  
**Dangerous Goods Class:** 6.1  
**Subsidiary Risk:** 8  
**Hazchem Code:** 2W  
**Poisons Schedule:** S6  
**Application:** Additive

**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
Acrylic acid, 2-hydroxyethyl ester	818-61-1	60 - 100%	Not applicable	Not applicable	Not applicable

## Non-Hazardous Substance to Total of 100%

### 3. HAZARDS IDENTIFICATION

<b>Hazard Overview</b>	May cause eye, skin, and respiratory burns. May be fatal if absorbed through the skin. May cause allergic skin reaction. May be harmful if swallowed. Poison.
<b>Risk Phrases</b>	R24 Toxic in contact with skin. R34 Causes burns. R43 May cause sensitization by skin contact. R50 Very toxic to aquatic organisms.
<b>HSNO Classification</b>	Not Determined

### 4. FIRST AID MEASURES

<b>Inhalation</b>	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.
<b>Skin</b>	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.
<b>Eyes</b>	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.
<b>Ingestion</b>	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.
<b>Notes to Physician</b>	Not Applicable

### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water fog, carbon dioxide, foam, dry chemical.
<b>Extinguishing media which must not be used for safety reasons</b>	None known.
<b>Special Exposure Hazards</b>	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.
<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. Contain spill with sand or other inert materials. Scoop up and remove.

### 7. HANDLING AND STORAGE

<b>Handling Precautions</b>	Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.
-----------------------------	---

PERM A CONFORMANCE ADDITIVE

**Storage Information** Store away from alkalis. Store away from oxidizers. Store away from reducing agents. Store away from direct sunlight. Store in a cool well ventilated area. Store at temperatures between 50 and 100 F (10 and 37.8 C). Do not freeze. Keep container closed when not in use. Do NOT fill containers completely. Keep containers oxygenated with air. Product has a shelf life of 6 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** In high concentrations, supplied air respirator or a self-contained breathing apparatus.

**Hand Protection** 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

<b>Physical State:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Mild acrylic
<b>pH:</b>	3.5
<b>Specific Gravity @ 20 C (Water=1):</b>	1.1
<b>Density @ 20 C (kg/l):</b>	1.098
<b>Bulk Density @ 20 C (kg/m<sup>3</sup>):</b>	Not Determined
<b>Boiling Point/Range (C):</b>	210
<b>Freezing Point/Range (C):</b>	Not Determined
<b>Pour Point/Range (C):</b>	Not Determined
<b>Flash Point/Range (C):</b>	101
<b>Flash Point Method:</b>	Not Determined
<b>Autoignition Temperature (C):</b>	Not Determined
<b>Flammability Limits in Air - Lower (g/m<sup>3</sup>):</b>	Not Determined
<b>Flammability Limits in Air - Lower (%):</b>	1.8
<b>Flammability Limits in Air - Upper (g/m<sup>3</sup>):</b>	Not Determined
<b>Flammability Limits in Air - Upper (%):</b>	Not Determined
<b>Vapor Pressure @ 20 C (mmHg):</b>	0.11
<b>Vapor Density (Air=1):</b>	Not Determined
<b>Percent Volatiles:</b>	Not Determined
<b>Evaporation Rate (Butyl Acetate=1):</b>	Not Determined
<b>Solubility in Water (g/100ml):</b>	Soluble
<b>Solubility in Solvents (g/100ml):</b>	Not Determined
<b>VOCs (g/l):</b>	Not Determined
<b>Viscosity, Dynamic @ 20 C (centipoise):</b>	Not Determined
<b>Viscosity, Kinematic @ 20 C (centistokes):</b>	Not Determined
<b>Partition Coefficient/n-Octanol/Water:</b>	Not Determined
<b>Molecular Weight (g/mole):</b>	116.13
<b>Decomposition Temperature (C):</b>	Not Determined

## 10. STABILITY AND REACTIVITY

**Stability Data:** Stable

<b>Hazardous Polymerization:</b>	May Occur
<b>Conditions to Avoid</b>	Keep away from heat, sparks and flame. UV light exposure. Avoid contact with free radical initiators.
<b>Incompatibility (Materials to Avoid)</b>	Strong oxidizers. Free radical initiators. Reducing agents. Nitrogen.
<b>Hazardous Decomposition Products</b>	Toxic fumes. Carbon monoxide and carbon dioxide.
<b>Additional Guidelines</b>	Not Applicable

## 11. TOXICOLOGICAL INFORMATION

<b>Principle Route of Exposure</b>	Eye or skin contact, inhalation.
<b><u>Symptoms related to exposure</u></b>	
<b>Inhalation</b>	Causes severe respiratory irritation.
<b>Skin Contact</b>	May be fatal if absorbed through the skin. Causes severe skin irritation. May cause skin burns. May cause an allergic skin reaction.
<b>Eye Contact</b>	May cause eye burns. May cause permanent eye damage.
<b>Ingestion</b>	Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea.
<b>Aggravated Medical Conditions</b>	Skin disorders.
<b>Chronic Effects/Carcinogenicity</b>	No data available to indicate product or components present at greater than 1% are chronic health hazards.
<b>Other Information</b>	None known.
<b>Toxicity Tests</b>	
<b>Oral Toxicity:</b>	LD50: 540 mg/kg (Rat)
<b>Dermal Toxicity:</b>	LD50: 154 mg/kg (Rabbit)
<b>Inhalation Toxicity:</b>	Not determined
<b>Primary Irritation Effect:</b>	Not determined
<b>Carcinogenicity</b>	Not determined
<b>Genotoxicity:</b>	Not determined
<b>Reproductive / Developmental Toxicity:</b>	Not determined

## 12. ECOLOGICAL INFORMATION

<b>Mobility (Water/Soil/Air)</b>	Not determined
<b>Persistence/Degradability</b>	BOD(28 Day): 40% of COD
<b>Bio-accumulation</b>	Not determined

## Ecotoxicological Information

**Acute Fish Toxicity:** TLM96: 4.8 mg/l (Pimephales promelas) TLM48: 7478 mg/l (Orange-Red Killfish)  
**Acute Crustaceans Toxicity:** TLM96: 0.78 mg/l (Daphnia magna)  
**Acute Algae Toxicity:** Not determined

**Chemical Fate Information** Not determined

**Other Information** Not applicable

## 13. DISPOSAL CONSIDERATIONS

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

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

## 14. TRANSPORT INFORMATION

### Land Transportation

#### ADR

UN2927, Toxic Liquid, Corrosive, Organic, N.O.S. (Contains Hydroxyethyl Acrylate), 6.1, (8), II

### Air Transportation

#### ICAO/IATA

UN2927, Toxic Liquid, Corrosive, Organic, N.O.S., 6.1, (8), II  
(Contains Hydroxyethyl Acrylate)

### Sea Transportation

#### IMDG

UN2927, Toxic Liquid, Corrosive, Organic, N.O.S. (Contains Hydroxyethyl Acrylate), 6.1, (8), II  
EmS F-A, S-B

### Other Transportation Information

**Labels:** Toxic  
Corrosive

## 15. REGULATORY INFORMATION

### Chemical Inventories

**Australian AICS Inventory** Product contains one or more components not listed on inventory.  
**New Zealand Inventory of Chemicals** This product does not comply with NZIOC

**US TSCA Inventory** All components listed on inventory or are exempt.  
**EINECS Inventory** This product, and all its components, complies with EINECS

**Classification** T - Toxic.  
N - Dangerous For The Environment.

**Risk Phrases**

R24 Toxic in contact with skin.  
R34 Causes burns.  
R43 May cause sensitization by skin contact.  
R50 Very toxic to aquatic organisms.

**Safety Phrases**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S45 In case of accident or if you feel unwell, seek medical advice immediately.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.  
S1/2 Keep locked up and out of reach of children.  
S36/39 Wear suitable protective clothing and eye/face protection.

**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\*\*\***