

## SAFETY DATA SHEET

### WellLock H2

Revision Date: 19-Jun-2013

Revision Number: 3

#### 1. Product and Company Identification

##### Product Name

Product Trade Name: WellLock H2

##### Other Names

Synonyms: None  
Product Code: HM007348

##### Recommended Use

Recommended Use: Curing Agent  
Uses Advised Against: No information available

##### Company Name, Address and Contact Details

Manufacturer/Supplier: Halliburton New Zealand  
1 Paraite Rd,  
Bell Block, New Plymouth  
New Zealand Registration No.: 824207

E-Mail address: fdunexchem@halliburton.com

Emergency Telephone Number: +64-6-7559274

New Zealand National Poisons Centre: 0800 764 766 (24 hours)

#### 2. Hazard(s) Identification

##### Statement of Hazardous Nature

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001;  
Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

##### Classification

6.1C (Oral) Acutely Toxic Substances  
6.1C (Dermal) Acutely Toxic Substances  
8.2C Corrosive to dermal tissue if exposed for greater than 1 hour  
8.3A Corrosive to ocular tissue  
9.3B Ecotoxic to terrestrial invertebrates

##### Hazard and Precautionary Statements

## 2. Hazard(s) Identification

### Hazard Pictograms



### Signal Word

Danger

### Hazard Statements

H301 - Toxic if swallowed  
 H311 - Toxic in contact with skin  
 H314 - Causes severe skin burns and eye damage  
 H318 - Causes serious eye damage  
 H432 - Toxic to the terrestrial vertebrates.

### Precautionary Statements

#### Prevention

P101 - If medical advice is needed, have product container or label at hand  
 P102 - Keep out of reach of children  
 P103 - Read label before use  
 P104 - Read Safety Data Sheet before use.  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P280 - Wear protective gloves/eye protection/face protection

#### Response

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 P330 - Rinse mouth  
 P331 - Do NOT induce vomiting  
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
 P361 - Remove/Take off immediately all contaminated clothing  
 P363 - Wash contaminated clothing before reuse  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
 P310 - Immediately call a POISON CENTER or doctor/physician  
 P391 - Collect spillage

#### Storage

P405 - Store locked up

#### Disposal

P501 - Dispose of contents/container to an approved incineration plant

### Contains

Substances	CAS Number	Substance HSNO Classification
Polyoxypropylene Diamine	9046-10-0	6.1C (Oral) 6.1C (Dermal) 8.2C 8.3A 9.3B

### Other Hazards

None known

### 3. Composition and Information on Ingredients

Substances	CAS Number	PERCENT (w/w)
Polyoxypropylene Diamine	9046-10-0	60 - 100%

### 4. First-Aid Measures

#### **Requirements for First Aid or Medical Care**

<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>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. Check for and remove contact lenses if present.
<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>Ingestion</b>	If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention.

#### **Workplace Facilities Required**

None

#### **Relation to Health Effect**

##### **Most Important Symptoms/Effects**

May cause eye and skin burns.

#### **Medical Attention and Special Treatment**

##### **Notes to Physician**

Treat symptomatically

### 5. Fire-Fighting Measures

#### **Type of Hazard**

##### **Flammability Hazard**

Non-flammable

#### **Extinguishing media**

##### **Suitable Extinguishing Media**

Dry chemical. Sand.

##### **Extinguishing media which must not be used for safety reasons**

Do not use water.

#### **HAZCHEM Code**

Hazchem Code: None Allocated

#### **Special Protective Equipment and Precautions for Fire Fighters**

##### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

##### **Special Exposure Hazards**

Closed containers may explode in fire.

### 6. Spillage, Accidental Release Measures

#### **Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment.

See Section 12 for additional information

## 6. Spillage, Accidental Release Measures

### Environmental precautions

Prevent from entering sewers, waterways, or low areas.

### Methods and material for containment and cleaning up

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

### Reference to other sections

See Section 12 for additional information.

## 7. Handling and Storage

### Precautions for Safe Handling

#### Handling Precautions

Wash hands after use. Launder contaminated clothing before reuse. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Avoid breathing mist.

#### Handling Practices

#### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

#### Approved Handlers

Must be locked away when unattended.

#### Conditions for safe storage, including any incompatibilities

Store away from acids. Store in a cool well ventilated area. Keep container closed when not in use. Store locked up. Do not reuse empty container. Store away from direct sunlight. Product has a shelf life of 24 months.

#### Store Site Requirements

No special controls required

#### Packaging

No special packaging required

## 8. Exposure Controls and Personal Protection

### Workplace Exposure Standards

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Polyoxypropylene Diamine	9046-10-0	Not applicable	Not applicable

### Engineering Controls

#### Engineering Controls

Use in a well ventilated area.

### Personal Protective Equipment (PPE)

#### Respiratory Protection

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.

Organic vapor respirator.

#### Hand Protection

Impervious rubber gloves.

#### Skin Protection

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.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical State:</b>	Liquid	<b>Color:</b>	Yellowish
<b>Odor:</b>	Ammonia	<b>Odor Threshold:</b>	No information available

<u>Property</u>	<u>Values</u>
<u>Remarks/ Method</u>	
<b>pH:</b>	11.7
<b>Freezing Point/Range</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Range</b>	No data available
<b>Flash Point</b>	121°C
<b>PMCC</b>	
<b>Evaporation rate</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	> 1
<b>Specific Gravity</b>	0.95
<b>Water Solubility</b>	Miscible with water
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

### Other information

<b>VOC Content (%)</b>	No data available
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## 10. Stability and Reactivity

### Chemical Stability

Stable

### Conditions to Avoid

None anticipated

### Incompatible Materials

Strong acids.

### Hazardous Decomposition Products

Carbon monoxide and carbon dioxide. Oxides of nitrogen.

### Hazardous Reactions

**Hazardous Polymerization:** Will Not Occur

## 11. Toxicological Information

### Health Effect from Likely Routes of Exposure

#### **Acute Toxicity**

#### **Product Information**

Under certain conditions of use, some of the product ingredients may cause the following:

#### **Inhalation**

May cause respiratory irritation.

## 11. Toxicological Information

<b>Eye Contact</b> <b>Skin Contact</b> <b>Ingestion</b>	Causes eye burns. Causes burns. Causes burns of the mouth, throat and stomach. Harmful if swallowed. Aspiration can be a hazard if this material is swallowed.
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**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 1% are chronic health hazards.

### Toxicity Data

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Polyoxypropylene Diamine	242 mg/kg ( Rat )	360 mg/kg ( Rabbit )	No data available

## 12. Ecological Information

### Toxicity Ecotoxicity Effects

#### Product Ecotoxicity Data

No data available

#### Substance Ecotoxicity Data

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Polyoxypropylene Diamine	No information available	No information available	No information available	No information available

#### Persistence and degradability

No information available

#### Bioaccumulative potential

No information available

#### Mobility in soil

No information available

#### Ecotoxicity Hazard Statements

Toxic to terrestrial invertebrates.

#### Other adverse effects

#### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## 13. Disposal Considerations

### Waste treatment methods

#### 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. Substance should NOT be deposited into a sewage facility.

### 13. Disposal Considerations

**Contaminated Packaging** Follow all applicable national or local regulations. Contaminated packaging may be disposed of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no longer hazardous, or by disposing of packaging into commercial waste collection.

### 14. Transport Information

#### IMDG/IMO

**UN Number:** UN2735,  
**UN Proper Shipping Name:** Polyamines, Liquid, Corrosive, N.O.S.  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , III  
**EMS:** EmS F-A, S-B

#### NZ 5433.1999

**UN Number:** UN2735,  
**UN Proper Shipping Name:** Polyamines, Liquid, Corrosive, N.O.S.  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , III

#### IATA/ICAO

**UN Number:** UN2735,  
**UN Proper Shipping Name:** Polyamines, Liquid, Corrosive, N.O.S.  
**Transport Hazard Class(es):** , 8  
**Packing Group:** , III

**Special Precautions for User** None  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

### 15. Regulatory Information

**New Zealand Inventory of Chemicals** All components listed on inventory or are exempt.

**HSNO Approval Number** HSR003702  
**Group Name** Not Applicable  
**HSNO Controls** Refer to the NZ EPA website for more information: <http://www.epa.govt.nz>  
**Approved Handlers** Must be locked away when unattended.  
**Poisons Schedule:** None Allocated

### 16. Other Information

**The following sections have been revised since the last issue of this SDS**  
 Not applicable

**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.

**Key literature references and sources for data**

www.ChemADVISOR.com/  
NZ CCID

**Revision Date:** 19-Jun-2013  
**Revision Note** Not applicable

**Disclaimer Statement**

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**End of Safety Data Sheet**