

# **SAFETY DATA SHEET**

according to Regulation (EC) No. 453/2010

## **WellLock D1**

Revision Date: 08-May-2012

Revision Number: 1

### **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product Identifier****Product Name** WellLock D1**Relevant identified uses of the substance or mixture and uses advised against****Recommended Use** Resin Diluent**Uses Advised Against** No information available**Details of the supplier of the safety data sheet**

Halliburton Energy Services  
Halliburton House, Howemoss Place  
Kirkhill Industrial Estate  
Dyce  
Aberdeen, AB21 0GN  
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

[www.halliburton.com](http://www.halliburton.com)

For further information, please contact

**E-Mail address:** [fdunexchem@halliburton.com](mailto:fdunexchem@halliburton.com)**Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

**Emergency telephone \$45 - (EC)1272/2008**

<b>Europe</b>	<b>112</b>
<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>France</b>	ORFILA (FR): + 01 45 42 59 59
<b>Germany</b>	Poison Center Berlin (DE): +49 030 30686 790
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO): + 47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20
<b>United Kingdom</b>	NHS Direct (UK): +44 0845 46 47

### **2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture****REGULATION (EC) No 1272/2008**

Acute Oral Toxicity	Category 4- H302
Acute Inhalation Toxicity - Vapors	Category 4- H332
Skin Sensitization	Category 1- H317
Germ Cell Mutagenicity	Category 2- H341
Carcinogenicity	Category 2- H351
Specific Target Organ Toxicity - (Single Exposure)	Category 3- H335

## 2. HAZARDS IDENTIFICATION

Chronic Aquatic Toxicity	Chronic 3- H412
Flammable liquids.	Category 3- H226

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

**Classification** Xn - Harmful.

### Risk Phrases

R37 Irritating to respiratory system.  
 R40 Limited evidence of a carcinogenic effect.  
 R43 May cause sensitization by skin contact.  
 R68 Possible risk of irreversible effects.  
 R20/22 Harmful by inhalation and if swallowed.  
 R36/38 Irritating to eyes and skin.  
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Label Elements

#### Hazard Pictograms



### Signal Word

### Warning

### Hazard Statements

H226 - Flammable liquid and vapor  
 H351 - Suspected of causing cancer  
 H341 - Suspected of causing genetic defects  
 H332 - Harmful if inhaled  
 H302 - Harmful if swallowed  
 H335 - May cause respiratory irritation  
 H317 - May cause an allergic skin reaction  
 H412 - Harmful to aquatic life with long lasting effects

### Contains

#### Substances

Butyl glycidyl ether

#### CAS Number

2426-08-6

**Precautionary Statements - EU (§28, 1272/2008)**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor/physician if you feel unwell

P301+ P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

**Other Hazards**

None known

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Butyl glycidyl ether	219-376-4	2426-08-6	60 - 100%	Carc. Cat. 3; Mut. Cat. 3; Xn; R10-20/22-37-40-43-52/53-68	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 2 (H351) STOT SE 3 (H335) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

**4. FIRST AID MEASURES****Description of 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.

**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.

**Skin**

Remove contaminated clothing and launder before reuse. In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

**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.

**Most Important symptoms and effects, both acute and delayed**

May cause eye, skin, and respiratory irritation. May cause headache, dizziness, and other central nervous system effects.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically

**5. FIREFIGHTING MEASURES****Extinguishing media****Suitable Extinguishing Media**

Water fog, carbon dioxide, foam, dry chemical.

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

None known.

**Special hazards arising from the substance or mixture****Special Exposure Hazards**

Decomposition in fire may produce toxic gases.

**Advice for firefighters****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 precautions, protective equipment and emergency procedures**

Use appropriate protective equipment.

See Section 12 for additional information

### **Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

### **Methods and material for containment and cleaning up**

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

### **Reference to other sections**

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

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

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

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

Store away from acids. Keep away from friction, impact, and heat. Keep container closed when not in use.

### **Specific End Use(s)**

**Exposure Scenario** No information available

**Other Guidelines** No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Butyl glycidyl ether	Not applicable	Not applicable	Not applicable	25 ppm	Not applicable

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Butyl glycidyl ether	Not applicable	30 mg/m <sup>3</sup>	Not applicable	Not applicable	Not applicable

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### **Exposure controls**

#### **Engineering Controls**

Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

### **Personal protective equipment**

#### **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.

#### **Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

#### **Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

### **Environmental Exposure Controls**

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical State:** Liquid  
**Odor:** Irritating

**Color:** Colorless  
**Odor Threshold:** No information available

Property  
Remarks/ Method

Values

<b>pH:</b>	7
<b>Melting Point/Range</b>	No data available
<b>Freezing Point/Range (C):</b>	No data available
<b>Boiling Point/Range</b>	164°C
<b>Flash Point</b>	58°C
Seta closed cup	
<b>Evaporation rate</b>	No data available
<b>Vapor Pressure</b>	3.2 mmHg
<b>Vapor Density</b>	3.78
<b>Specific Gravity</b>	0.92
<b>Water Solubility</b>	Insoluble in 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>Molecular Weight</b>	130.18
<b>VOC Content (%)</b>	No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable

### Chemical Stability

Stable

### Possibility of Hazardous Reactions

Will Not Occur

### Conditions to Avoid

Keep away from heat, sparks and flame.

### Incompatible Materials

Strong oxidizers.

### Hazardous Decomposition Products

Toxic fumes. Carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

##### **Inhalation**

May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

##### **Eye Contact**

Causes severe eye irritation which may damage tissue.

##### **Skin Contact**

May cause severe skin irritation. May cause an allergic skin reaction. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion. Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea, and diarrhea.

##### **Ingestion**

**Chronic Effects/Carcinogenicity** This product is a potential carcinogen. May cause testicular toxicity.

## 11. TOXICOLOGICAL INFORMATION

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Butyl glycidyl ether	1660 mg/kg	>2150 mg/kg	No data available

**Test species:** Rat

## 12. ECOLOGICAL INFORMATION

### Toxicity Ecotoxicity Effects

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Butyl glycidyl ether	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

### Results of PBT and vPvB assessment No information available.

### 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 Contaminated Packaging

Disposal should be made in accordance with federal, state, and local regulations.  
Follow all applicable national or local regulations.

## 14. TRANSPORT INFORMATION

### IMDG/IMO

**UN Number:** UN1992,  
**UN Proper Shipping Name:** Flammable Liquid, Toxic, N.O.S.  
**Transport Hazard Class(es):** 3, (6.1)  
**Packing Group:** III  
**EMS:** EmS F-E, S-D

### RID

**UN Number:** UN1992,  
**UN Proper Shipping Name:** Flammable Liquid, Toxic, N.O.S.  
**Transport Hazard Class(es):** 3, (6.1)  
**Packing Group:** III

### ADR

**UN Number:** UN1992,  
**UN Proper Shipping Name:** Flammable Liquid, Toxic, N.O.S.

**14. TRANSPORT INFORMATION**

Transport Hazard Class(es): , 3, (6.1)  
Packing Group: , III

**IATA/ICAO**

UN Number: UN1992,  
UN Proper Shipping Name: Flammable Liquid, Toxic, N.O.S.  
Transport Hazard Class(es): , 3, (6.1)  
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****Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

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

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering Classes (WGK) WGK 2: Hazard to waters.

**Chemical Safety Assessment**

No information available

**16. OTHER INFORMATION****Full text of R-phrases referred to under Sections 2 and 3**

R37 Irritating to respiratory system.

R40 Limited evidence of a carcinogenic effect.

R43 May cause sensitization by skin contact.

R68 Possible risk of irreversible effects.

R20/22 Harmful by inhalation and if swallowed.

R36/38 Irritating to eyes and skin.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

Revision Date: 08-May-2012

Revision Note Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer Statement**

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<b>16. OTHER INFORMATION</b>
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End of Safety Data Sheet