#### **HALLIBURTON**

## SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

### PERM D CONFORMANCE ADDITIVE

Revision Date: 20-Dec-2012 Revision Number: 11

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

**Product Identifier** 

Product Name PERM D CONFORMANCE ADDITIVE

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Additive

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

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

**Emergency telephone number** 

+44 1224 795277 or +1 281 575 5000

+44 1224 /952// 0r +1 281 5/5 5000				
mergency telephone §45 - (EC)1272/2008				
Europe	112			
Denmark	Poison Control Hotline (DK): +45 82 12 12 12			
France	ORFILA (FR): + 01 45 42 59 59			
Germany	Poison Center Berlin (DE): +49 030 30686 790			
Italy	Poison Center, Milan (IT): +39 02 6610 1029			
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)			
Norway	Poisons Information (NO):+ 47 22 591300			
Poland	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97			
Spain	Poison Information Service (ES): +34 91 562 04 20			
United Kingdom	NHS Direct (UK): +44 0845 46 47			

#### 2. HAZARDS IDENTIFICATION

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

Skin Sensitization	Category 1- H317
Acute Aquatic Toxicity	Acute 3- H412

### 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

#### 2. HAZARDS IDENTIFICATION

Classification

- Irritant. Χi

**Risk Phrases** 

R43 May cause sensitization by skin contact.

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**

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

#### **Contains**

**Substances** 

2,2`-Azobis-2-methyl-n-(2-hydroxyethyl)propionamide

**CAS Number** 

61551-69-7

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

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

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

#### Other Hazards

Dust can form an explosive mixture in air

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Substances	EINECS	CAS Number	PERCENT	EEC	EU - CLP Substance	REACH No.
				Classification	Classification	
2,2`-Azobis-2-methyl- n-(2-	429-090-3	61551-69-7	60 - 100%	R43 R52-53	Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	No data available
hydroxyethyl)propiona mide					. , ,	

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

#### 4. FIRST AID MEASURES

#### **Description of first aid measures**

4. FIRST AID MEASURES

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably Inhalation

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

Wash with soap and water. Remove contaminated clothing and launder before Skin

reuse. Get medical attention if irritation persists.

Ingestion If swallowed, induce vomiting immediately by giving two glasses of water and

sticking fingers down throat; never give anything to an unconscious person. Get

medical attention.

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

May cause eye irritation. May cause allergic skin reaction.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically

#### 5. FIREFIGHTING MEASURES

#### Extinguishing mediaó

**Suitable Extinguishing Media** 

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

**Eyes** 

#### Special hazards arising from the substance of mixture

#### **Special Exposure Hazards**

Organic dust in the presence of an ignition source can be explosive in high concentrations. Good housekeeping practices are required to minimize this potential.

#### 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. Avoid creating and breathing dust.

See Section 12 for additional information

#### **Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

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

Scoop up and remove. Flush area with water.

#### Reference to other sections

See Section 12 for additional information.

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Wash hands after use.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

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

Store away from direct sunlight. Store in a cool well ventilated area. Keep from heat, sparks, and open flames. Keep away from friction, impact, and heat. Container should NOT be closed tightly. Product has a shelf life of 6 months. Store away from oxidizers. Store away from acids.

Specific End Use(s)

No information available **Exposure Scenario Other Guidelines** No information available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
2,2`-Azobis-2-methyl-n-	Not applicable				
(2- hydroxyethyl)propionamid e					

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
2,2`-Azobis-2-methyl-n-	Not applicable				
(2-					
hydroxyethyl)propionamid					
e					

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

(PNEC)

**Exposure controls Engineering Controls** 

Use in a well ventilated area. Localized ventilation should be used to control dust levels.

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Personal protective equipment

**Respiratory Protection** Organic vapor respirator with a dust/mist filter.

**Hand Protection** Impervious rubber gloves. **Skin Protection** Normal work coveralls. **Eve Protection** Dust proof goggles.

Eyewash fountains and safety showers must be easily accessible. **Other Precautions** 

**Environmental Exposure Controls** No information available

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Powder Physical State: Light yellow Color:

Odorless Odor Threshold: No information available Odor:

Property Values

Remarks/ Method

No data available No data available Melting Point/Range Freezing Point/Range (C): No data available No data available **Boiling Point/Range** No data available Flash Point **Evaporation rate** No data available **Vapor Pressure** No data available No data available **Vapor Density** 0.47

**Specific Gravity** 

Water Solubility Partly soluble No data available Solubility in other solvents

-0.69Partition coefficient: n-octanol/water

No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available **Viscosity** 

No information available **Explosive Properties Oxidizing Properties** No information available

Other information

**VOC Content (%)** No data available

#### 10. STABILITY AND REACTIVITY

Reactivity

#### 10. STABILITY AND REACTIVITY

Not applicable

**Chemical Stability** 

Stable

Possibility of Hazardous Reactions

Will Not Occur

**Conditions to Avoid** 

None anticipated

**Incompatible Materials** 

Strong oxidizers. Strong acids.

**Hazardous Decomposition Products** 

Oxides of nitrogen. Carbon monoxide and carbon dioxide.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects

**Acute Toxicity** 

Inhalation Excessive inhalation causes headache, dizziness, nausea and incoordination. May cause

respiratory irritation.

**Eye Contact** May cause eye irritation.

Skin Contact May cause skin irritation. May cause an allergic skin reaction. May be absorbed through the

skin and contribute to the symptoms listed under ingestion.

Ingestion Irritation of the mouth, throat, and stomach. May cause abdominal pain, vomiting, nausea,

and diarrhea. May act as obstruction if swallowed.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1%

are chronic health hazards.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,2`-Azobis-2-methyl-n-(2-	> 2000 mg/kg	No data available	No data available
hydroxyethyl)propionamide			

#### 12. ECOLOGICAL INFORMATION

#### **Toxicity**

#### **Ecotoxicity Effects**

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
2,2`-Azobis-2-methyl-n- (2-	No information available	LC50: (96 hour) 100 mg/L (Oncorhynchus mykiss)	No information available	No information available
hydroxyethyl)propionamid e				

#### Persistence and degradability

Product is not biodegradable

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

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

#### 14. TRANSPORT INFORMATION

IMDG/IMO

**UN Number:** UN3088.

**UN Proper Shipping Name:** Self-heating, Solid, Organic, N.O.S.

Transport Hazard Class(es): , 4.2 **Packing Group:** . II

EMS: EmS F-A, S-J

RID

**UN Number:** UN3088.

**UN Proper Shipping Name:** Self-heating, Solid, Organic, N.O.S.

Transport Hazard Class(es): , 4.2 , II **Packing Group:** 

**ADR** 

**UN Number:** UN3088

**UN Proper Shipping Name:** Self-heating, Solid, Organic, N.O.S.

Transport Hazard Class(es): , 4.2 , II **Packing Group:** 

IATA/ICAO

**UN Number:** UN3088.

**UN Proper Shipping Name:** Self-heating, Solid, Organic, N.O.S.

Transport Hazard Class(es): , 4.2 . 11 **Packing Group:** 

**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.

Product contains one or more components not listed on the inventory. **Canadian DSL Inventory** 

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/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Germany, Water Endangering

Classes (WGK)

Not determined.

**Chemical Safety Assessment** 

No information available

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#### **16. OTHER INFORMATION**

#### Full text of R-phrases referred to under Sections 2 and 3

R43 May cause sensitization by skin contact.

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/

Revision Date: 20-Dec-2012 Revision Note 20-Dec-2012 Not applicable

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

#### **Disclaimer Statement**

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**End of Safety Data Sheet**