# **HALLIBURTON**

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

# **DEXTRID® LT**

Revision Date: 23-Sep-2015 Revision Number: 15

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name DEXTRID® LT Internal ID Code HM003614

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fluid Loss Additive

#### 1.3. Details of the supplier of the safety data sheet

Halliburton Manufacturing Services, Ltd. Halliburton House, Howemoss Crescent Kirkhill Industrial Estate

Dyce

Aberdeen, AB21 0GN United Kingdom

www.halliburton.com

For further information, please contact

E-Mail address: fdunexchem@halliburton.com

**1.4. Emergency telephone number** +44 8 08 189 0979 / 1-760-476-3961

Emergency telephone - §	45 - (EC)1272/2008						
Europe	112						
Croatia	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)						
Cyprus	+210 7793777						
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						
Romania	+40 21 318 36 06						
Spain	Poison Information Service (ES): +34 91 562 04 20						
United Kingdom	NHS Direct (UK): +44 0845 46 47						

# SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008** 

Skin Corrosion / irritation	Category 2 - (H315)
Serious Eye Damage / Eye Irritation	Category 2 - (H319)

# 2.2. Label Elements

#### **Hazard Pictograms**



Signal Word Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/face protection

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

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

**Contains** 

SubstancesCAS NumberSodium hydroxide1310-73-2

#### 2.3. Other Hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

# **SECTION 3: Composition/information on Ingredients**

# 3.1. Substances Substance

Substances	EINECS	CAS Number	PERCENT (w/w)	EU - CLP Substance Classification	REACH No.
Sodium hydroxide	215-185-5	1310-73-2	0.1 - 1%	Skin Corr. 1A (H314) STOT SE 3 (H335) Met. Corr. 1 (H290)	01-2119457892-27

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

### **SECTION 4: First aid measures**

4.1. Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

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

minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. Get medical attention if irritation persists. **Ingestion** Under normal conditions, first aid procedures are not required.

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

Causes eye irritation. Causes skin irritation.

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

Notes to Physician Treat symptomatically

# **SECTION 5: Firefighting Measures**

# 5.1. Extinguishing media Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

#### 5.2. Special hazards arising from the substance or 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. Decomposition in fire may produce harmful gases.

# 5.3. Advice for firefighters

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

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

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

See Section 8 for additional information

#### 6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

# 6.3. Methods and material for containment and cleaning up

Scoop up and remove.

#### 6.4. Reference to other sections

See Section 8 and 13 for additional information.

# **SECTION 7: Handling and Storage**

#### 7.1. Precautions for Safe Handling

Use appropriate protective equipment. Avoid creating or inhaling dust. Avoid dust accumulations. Ensure adequate ventilation. Avoid contact with eyes, skin, or clothing. Wash hands after use. Launder contaminated clothing before reuse.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

# 7.2. Conditions for safe storage, including any incompatibilities

Store away from oxidizers. Store in a cool, dry location. Product has a shelf life of 12 months.

#### 7.3. Specific End Use(s)

Exposure Scenario No information available Other Guidelines No information available

# **SECTION 8: Exposure Controls/Personal Protection**

# 8.1. Control parameters

**Exposure Limits** 

Substances	CAS Number	EU	UK	Netherlands	France
Sodium hydroxide	1310-73-2	Not applicable	STEL: 2 mg/m <sup>3</sup>	Not applicable	2 mg/m <sup>3</sup>
	•				

Substances	CAS Number	Germany	Spain	Portugal	Finland
Sodium hydroxide	1310-73-2	2 mg/m³	2 mg/m³ STEL IVLA-EC1	Not applicable	STEL: 2 mg/m <sup>3</sup>

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Sodium hydroxide	1310-73-2	TWA: 2 mg/m³ STEL" 4 mg/m³	2 mg/m³ STEL	TWA: 2 mg/m³ STEL: 2 mg/m³	Not applicable

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Sodium hydroxide	1310-73-2	Not applicable	TWA: 0.5 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
			STEL: 1 mg/m <sup>3</sup>	STEL: 2 mg/m <sup>3</sup>	

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Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Sodium hydroxide	1310-73-2	Not applicable	Not applicable	STEL: 2 mg/m <sup>3</sup>	Not applicable

# **Derived No Effect Level (DNEL)**

No information available.

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Substances	Long-term	Acute / short	Long-term	Acute / short	Long-term	Acute / short	Long-term	Acute / short	Hazards for
	exposure -	term	exposure -	term	exposure -	term	exposure -	term	the eyes -
	systemic	exposure -	local effects,	exposure -	systemic	exposure -	local effects,	exposure -	local effects
	effects,	systemic	Inhalation	local effects,	effects,	systemic	Dermal	local effects,	
	Inhalation	effects,		Inhalation	Dermal	effects,		Dermal	
		Inhalation				Dermal			
Sodium hydroxide	Not available	Not available	1 mg/m <sup>3</sup>	Not available	Not available	Not available	Not available	Not available	Not available

**General Population** 

Substances	Long-term	Acute /	Long-term	Acute /	Long-term	Acute /	Long-term	Acute /	Long-term	Acute /	Hazards
	exposure -	short term	exposure -	short term	exposure -	short term	exposure -	short term	exposure -	short term	for the
	systemic	exposure -	local	exposure -	systemic	exposure -	local	exposure -	systemic	exposure -	eyes -
	effects,	systemic	effects,	local	effects,	systemic	effects,	local	effects,	local	local
	Inhalation	effects,	Inhalation	effects,	Dermal	effects,	Dermal	effects,	Oral	effects,	effects
		Inhalation		Inhalation		Dermal		Dermal		Oral	
Sodium hydroxide	Not	Not	1 mg/m <sup>3</sup>	Not	Not						
	available	available		available	available						

#### **Predicted No Effect Concentration (PNEC)**

No information available.

#### 8.2. Exposure controls

**Engineering Controls** Use in a well ventilated area.

#### Personal protective equipment

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection Not normally needed. But if significant exposures are possible then the following

respirator is recommended:

Dust/mist respirator. (N95, P2/P3)

Hand ProtectionNormal work gloves.Skin ProtectionNormal work coveralls.

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

Environmental Exposure Controls Do not allow material to contaminate ground water system

# **SECTION 9: Physical and Chemical Properties**

9.1. Information on basic physical and chemical properties

Physical State:SolidColor:White to Off whiteOdor:StarchOdor Threshold:No information available

Property

Values

Remarks/ - Method

**pH:** 7.1

No data available Freezing Point/Range **Melting Point/Range** No data available Boiling Point/Range No data available Flash Point No data available Flammability (solid, gas) No data available upper flammability limit No data available lower flammability limit No data available **Evaporation rate** No data available **Vapor Pressure** No data available **Vapor Density** No data available

Specific Gravity 1.5

Water Solubility Soluble in water Solubility in other solvents No data available

Partition coefficient: n-octanol/water 1.52

Autoignition TemperatureNo data availableDecomposition TemperatureNo data available

Viscosity No data available

Explosive Properties

No information available

Oxidizing Properties

No information available

9.2. Other information

VOC Content (%)

Bulk Density

No data available
30-45 (lbs/ft3)

# **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

Not expected to be reactive.

10.2. Chemical Stability

Stable

10.3. Possibility of Hazardous Reactions

Will Not Occur

10.4. Conditions to Avoid

Keep away from heat, sparks and flame.

10.5. Incompatible Materials

Strong oxidizers.

10.6. Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

# **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

**Acute Toxicity** 

Sodium hydroxide

1310-73-2

**Inhalation** May cause mild respiratory irritation.

**Eye Contact Skin Contact**Causes severe eye irritation.
Causes skin irritation.

**Ingestion** Irritation of the mouth, throat, and stomach.

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 0.1% are

chronic health hazards.

# **Toxicology data for the components**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	1310-73-2	No data available	1350 mg/kg (Rabbit)	No data available
Substances	CAS Number	Skin corrosion/irritation		
Sodium hydroxide	1310-73-2	Causes severe burns		
Substances	CAS Number	Eye damage/irritation		
Sodium hydroxide	1310-73-2	Causes severe eye burns (Rabbi	t)	
Substances	CAS Number	Skin Sensitization		
Sodium hydroxide	1310-73-2	Did not cause sensitization on lal	poratory animals (guinea pig)	
Substances	CAS Number	Respiratory Sensitization		
Sodium hydroxide	1310-73-2	No information available		
Substances	CAS Number	Mutagenic Effects		
Sodium hydroxide	1310-73-2	Did not show mutagenic effects i	n animal experiments In vitro tests	did not show mutagenic effect
Substances	CAS Number	Carcinogenic Effects		
Sodium hydroxide	1310-73-2	No data of sufficient quality are a	vailable.	
Substances	CAS Number	Reproductive toxicity		
		•		

No information available

Substances	CAS Number	STOT - single exposure	
Sodium hydroxide	1310-73-2	May cause respiratory irritation.	
Substances	CAS Number	STOT - repeated exposure	
Sodium hydroxide	1310-73-2	No significant toxicity observed in animal studies at concentration requiring classification. Not applicable due to corrosivity of the substance.	
Substances	CAS Number	Aspiration hazard	
Sodium hydroxide	1310-73-2	Not applicable	

# **SECTION 12: Ecological Information**

# 12.1. Toxicity Ecotoxicity Effects

S	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to
nber			Microorganisms	Invertebrates
0-73-2	No information available	(Gambusia affinis) LC50 (48h) 189 mg/L (Leuciscus melanotus) LC50 (24h) 145 mg/L	No information available	EC50 (48h) 40.4 mg/L (Ceriodaphnia sp.)
n		ber	her Control of the Co	ber Microorganisms  73-2 No information available LC50 (96h) 125 mg/L (Gambusia affinis) LC50 (48h) 189 mg/L (Leuciscus melanotus) LC50 (24h) 145 mg/L

# 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Sodium hydroxide	1310-73-2	The methods for determining biodegradability are
		not applicable to inorganic substances.

# 12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Sodium hydroxide	1310-73-2	No information available

# 12.4. Mobility in soil

Substances	CAS Number	Mobility
Sodium hydroxide	1310-73-2	No information available

# 12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Substances	PBT and vPvB assessment	
Sodium hydroxide	Not applicable	

# 12.6. Other adverse effects

### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

# **SECTION 13: Disposal Considerations**

#### 13.1. Waste treatment methods

Disposal Method
Contaminated Packaging

Bury in a licensed landfill according to federal, state, and local regulations.

Follow all applicable national or local regulations.

# **SECTION 14: Transport Information**

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IMDG/IMO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not applicable
Not applicable

**RID** 

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not applicable
Not applicable

<u>ADR</u>

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Environmental Hazards:
Not restricted
Not applicable
Not applicable

IATA/ICAO

UN Number:
UN Proper Shipping Name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Environmental Hazards:
Not applicable
Not applicable

14.1. UN Number: Not restricted

14.2. UN Proper Shipping Name: Not restricted

14.3. Transport Hazard Class(es): Not applicable

14.4. Packing Group: Not applicable

14.5. Environmental Hazards: Not applicable

14.6. Special Precautions for User: None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

### SECTION 15: Regulatory Information

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

<u>International Inventories</u>

EINECS Inventory This product, and all its components, complies with EINECS

US TSCA Inventory

All components listed on inventory or are exempt.

All components listed on inventory or are exempt.

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

Germany, Water Endangering

Classes (WGK)

Not determined.

#### 15.2. Chemical Safety Assessment

No information available

# **SECTION 16: Other Information**

# Full text of H-Statements referred to under sections 2 and 3

H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

### Key or legend to abbreviations and acronyms

bw - body weight

CAS - Chemical Abstracts Service

 ${\sf CLP-REGULATION\,(EC)\,No\,1272/2008\,OF\,THE\,EUROPEAN\,PARLIAMENT\,AND\,OF\,THE\,COUNCIL\,on\,Classification},$ 

Labelling and Packaging of substances and mixtures

EC - European Commission

EC10 - Effective Concentration 10%

EC50 - Effective Concentration 50%

EEC - European Economic Community

ErC50 - Effective Concentration growth rate 50%

IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL - International Convention for the Prevention of Pollution from Ships

mg/kg – milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PBT - Persistent Bioaccumulative and Toxic

PC – Chemical Product category

PEL - Permissible Exposure Limit

ppm - parts per million

PROC - Process category

REACH - REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL - Short Term Exposure Limit

SU – Sector of Use category

# Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 23-Sep-2015

**Revision Note** 

SDS sections updated: 1

#### This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010

#### **Disclaimer Statement**

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**End of Safety Data Sheet**