# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

# 15% HYDROCHLORIC ACID with HAI-202 and GasPerm 1000

Revision Date: 09-Aug-2012 Revision Number: 1

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

**Product Identifier** 

Product Name 15% HYDROCHLORIC ACID with HAI-202 and GasPerm 1000

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

Recommended Use Solvent

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

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**Emergency telephone number** 

+44 1224 795277 or +1 281 575 5000

+44 1224 /952// 01+12815/5 5000					
Emergency 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 Corrosion / irritation	Category 2- (H315)
Serious Eye Damage / Eye Irritation	Category 2- (H319)
Specific Target Organ Toxicity - (Single Exposure)	Category 3- (H335)

#### 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

Revision Date: 09-Aug-2012

# 2. HAZARDS IDENTIFICATION

- Irritant. Classification Χi

**Risk Phrases** 

R36/37/38 Irritating to eyes, respiratory system and skin.

#### **Label Elements**

#### **Hazard Pictograms**



Signal Word Warning

#### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

#### **Contains**

**CAS Number Substances** Hydrochloric acid 7647-01-0

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

P280 - Wear protective gloves/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

P362 - Take off contaminated clothing and wash 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

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

#### **Other Hazards**

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS							
Substances	EINECS	CAS Number	PERCENT	EEC	EU - CLP Substance	REACH No.	

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Hydrochloric acid	231-595-7	7647-01-0	10 - 30%	C; R34	Skin Corr. 1B (H314)	No data available
				Xi: R37	STOT SE 3 (H335)	

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.

4. FIRST AID MEASURES

**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. In case of contact, immediately flush skin with plenty of soap and water for at least

Revision Date: 09-Aug-2012

Skin 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.

**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.

# 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.

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

#### **Special Exposure Hazards**

May form explosive mixtures with strong alkalis. Decomposition in fire may produce toxic gases. Reaction with steel and certain other metals generates flammable hydrogen gas. Do not allow runoff to enter waterways.

#### 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

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove.

#### 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 breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

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

Store away from alkalis. Store in a cool well ventilated area. 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

Revision Date: 09-Aug-2012

**Control parameters** 

Substances	EU	UK OEL	Netherlands	France OEL	Germany MAK/TRK
Hydrochloric acid	Not applicable	1 ppm	8 mg/m <sup>3</sup>	Not applicable	2 ppm

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Hydrochloric acid	5 ppm	5 mg/m <sup>3</sup>	8 mg/m <sup>3</sup>	8 mg/m <sup>3</sup>	Not applicable

**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. Local exhaust ventilation should be used in areas without good

cross ventilation.

Personal protective equipment

**Respiratory Protection** Acid gas respirator.

**Hand Protection** Impervious rubber gloves.

**Skin Protection** Full protective chemical resistant clothing. Rubber boots.

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions** Eyewash fountains and safety showers must be easily accessible.

No information available **Environmental Exposure Controls** 

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical State:** Color: Clear colorless Liquid

Odor: Pungent acrid Odor Threshold: No information available

Property Values Remarks/ Method

pH: 8.0

Melting Point/Range No data available

Freezing Point/Range (C): -46°C Boiling Point/Range 110°C

**Flash Point** No data available **Evaporation rate** No data available **Vapor Pressure** 26 mmHq

**Vapor Density** No data available No data available **Specific Gravity** Soluble in water **Water Solubility** Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available No data available **Autoignition Temperature** No data available **Decomposition Temperature** Viscosity No data available

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

Other information

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

# 10. STABILITY AND REACTIVITY

Reactivity

Not applicable

**Chemical Stability** 

Stable

**Possibility of Hazardous Reactions** 

Will Not Occur

**Conditions to Avoid** 

Revision Date: 09-Aug-2012

### 10. STABILITY AND REACTIVITY

None anticipated

**Incompatible Materials** 

Strong alkalis.

**Hazardous Decomposition Products** 

Flammable hydrogen gas. Chlorine. Hydrogen sulfide.

# 11. TOXICOLOGICAL INFORMATION

#### **Information on Toxicological Effects**

**Acute Toxicity** 

Inhalation Causes severe respiratory irritation.

**Eye Contact** May cause eye burns. **Skin Contact** May cause skin burns.

Ingestion Causes burns of the mouth, throat and stomach.

Chronic Effects/Carcinogenicity Prolonged, excessive exposure may cause erosion of the teeth.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	LD50: 700 mg/kg	LD50: >5010 mg/kg	LC50: 3124 ppm 1h

# 12. ECOLOGICAL INFORMATION

# **Toxicity**

#### **Ecotoxicity Effects**

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water
				Flea)
Hydrochloric acid	No information available	LC50: 282 mg/L (Gambusia	No information available	No information available
-		affinis)		

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

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

Revision Date: 09-Aug-2012

# 14. TRANSPORT INFORMATION

### IMDG/IMO

**UN Number:** UN1789.

**UN Proper Shipping Name:** Hydrochloric Acid Solution

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

EMS: EmS F-A, S-B

RID

**UN Number:** UN1789.

**UN Proper Shipping Name:** Hydrochloric Acid Solution

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

**ADR** 

UN1789. **UN Number:** 

**UN Proper Shipping Name:** Hydrochloric Acid Solution

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

IATA/ICAO

UN1789, **UN Number:** 

Hydrochloric Acid Solution **UN Proper Shipping Name:** 

Transport Hazard Class(es): , 8 **Packing Group:** , II

None **Special Precautions for User** 

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** 

This product does not comply with EINECS **EINECS Inventory US TSCA Inventory** All components listed on inventory or are exempt. Canadian DSL Inventory All components listed on inventory or are exempt.

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)

WGK 1: Low hazard to waters.

### **Chemical Safety Assessment**

No information available

# **16. OTHER INFORMATION**

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

R36/37/38 Irritating to eyes, respiratory system and skin.

# **16. OTHER INFORMATION**

Revision Date: 09-Aug-2012

#### Key literature references and sources for data

www.ChemADVISOR.com/

Revision Date: 09-Aug-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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**End of Safety Data Sheet** 

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