

Trade name: Acid hydrochloricum dil 10%

Substance number: 201371

Version: 4 / CH

Date revised: 26.08.2019

Replaces Version: 3 / CH

Print date: 26.08.19

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

### **1.1. Product identifier**

Acid hydrochloricum dil 10%

Item No. 20137100

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

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

### **1.4. Emergency telephone number**

Switzerland :145 / Abroad +41 (0)44 251 51 51

## **SECTION 2: Hazards identification**

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

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Warning

##### **Hazard statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

##### **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P312

Call a POISON CENTRE or doctor if you feel unwell.

P501.3

Disposal in compliance with local and national regulations.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains

Hydrochloric acid

**SECTION 3: Composition/information on ingredients \*\*\*****Hazardous ingredients****Hydrochloric acid**

CAS No. 7647-01-0

EINECS no. 231-595-7

Registration no. 01-2119484862-27-XXXX

Concentration  $\geq 10$   $< 20$  %

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314

STOT SE 3 H335

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319  $\geq 10 < 25$ Skin Corr. 1B H314  $\geq 25$ Skin Irrit. 2 H315  $\geq 10 < 25$ STOT SE 3 H335  $\geq 10$ 

CLP Regulation (EC) No 1272/2008, Annex VI, Note B

DSD Directive 67/548/EEC, Annex I, Note B

**Further ingredients \*\*\*****Water**

CAS No. 7732-18-5

EINECS no. 231-791-2

Concentration  $\geq 50$  %

Advice: [4]

**Note**

[4] Voluntary information

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

**After inhalation**

If the patient is likely to become unconscious, place and transport in stable sideways position.

**After skin contact**

Wash off immediately with soap and water and rinse well.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Ensure supply of fresh air. Summon a doctor immediately.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

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**Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

**5.2. Special hazards arising from the substance or mixture**

Hydrogen chloride (HCl); Under certain fire conditions the smoke may contain other toxic compounds.

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Wear full protective suit. Use self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep away unprotected persons.

**6.2. Environmental precautions**

Dilute with lot of water. Do not discharge into the drains/surface waters/groundwater.

**6.3. Methods and material for containment and cleaning up**

Neutralize. When picked up, treat material as prescribed under Section 13 "Disposal". Ensure adequate ventilation.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed.

**Advice on protection against fire and explosion**

The product is not combustible.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value &lt; 25 °C

**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place.

**Hints on storage assembly**

Not required.

**Storage classes**

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	10/12	Other liquid hazardous substances

**Further information on storage conditions**

Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls****General protective and hygiene measures**

Keep away from food-stuffs, beverages and feed-stocks. Wash hands before breaks and after work.  
 Avoid contact with skin and eyes. Hold eye wash fountain available.

**Respiratory protection**

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Short term: filter apparatus; At intensive and longer exposition use self-contained breathing apparatus.  
Short term: filter apparatus, combination filter E-P2

**Hand protection**

Gloves (acid-resistant)	
Appropriate Material	Polychloroprene
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Gloves (acid-resistant)	
Appropriate Material	nitrile rubber - NBR
Material thickness	0.35 mm
Breakthrough time	>= 8 h
Gloves (acid-resistant)	
Appropriate Material	Butyl rubber
Material thickness	0.5 mm
Breakthrough time	>= 8 h
Gloves (acid-resistant)	
Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Breakthrough time	>= 8 h
Gloves (acid-resistant)	
Appropriate Material	PVC
Material thickness	0.5 mm
Breakthrough time	>= 8 h

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Protective clothing

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**Form** liquid  
**Colour** colourless, clear

**pH value**  
Remarks not determined

**Melting point**  
Remarks not determined

**Initial boiling point and boiling range**  
Remarks not determined

**Flash point**  
Remarks Not applicable

**Flammability (solid, gas)**  
Not self inflammable

**Vapour pressure**  
Remarks Not applicable

**Density**  
Remarks not determined

**Solubility in water**  
Remarks Completely miscible

**9.2. Other information**

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**Other information**

The product is not dangerous for explosions.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrosive to metals.

**10.2. Chemical stability**

No decomposition if stored and applied as directed. To avoid thermal decomposition, do not overheat.

**10.3. Possibility of hazardous reactions**

Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

No decomposition if stored and applied as directed.

**10.5. Incompatible materials**

Corrosive to metals. Violent reactions with concentrated alkalis and oxidising agents.

**10.6. Hazardous decomposition products**

Hydrogen chloride (HCl), Chlorine

**Other information**

When diluting, add acids to water, never the other way around.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	8'975.76	mg/kg
	54	

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****Hydrochloric acid**

Species	rabbit	
LD50	900	mg/kg
Remarks	Ingestion causes burns of the upper digestive and respiratory tracts.	

**Acute inhalative toxicity (Components)****Hydrochloric acid**

Reference substance	Hydrogen chloride	
Species	rat	
LC50	31000	ppm(V)
Duration of exposure	5	min
Administration/Form	Vapors	
Source	NCBI Bookshelf 1998	

**Hydrochloric acid**

Reference substance	Hydrogen chloride	
Species	mouse	
LC50	11200	ppm(V)
Duration of exposure	5	min
Administration/Form	Vapors	
Source	NCBI Bookshelf 1998	

**Hydrochloric acid**

Reference substance	Hydrogen chloride
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Species	rat		
LC50	5600		ppm(V)
Duration of exposure	30	min	
Administration/Form	Vapors		
Source	NCBI Bookshelf 1998		

**Hydrochloric acid**

Reference substance	Hydrogen chloride		
Species	mouse		
LC50	2100		ppm(V)
Duration of exposure	30	min	
Administration/Form	Vapors		
Source	NCBI Bookshelf 1998		

**Hydrochloric acid**

Reference substance	Hydrogen chloride		
Species	guinea pig		
LC50	2519		ppm(V)
Duration of exposure	30	min	
Administration/Form	Vapors		
Source	Kirsch and Drabk 1982		

**Skin corrosion/irritation**

Remarks	Corrosive action on the skin and mucous membrane.
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**Serious eye damage/irritation**

Remarks	strongly corrosive
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**Sensitization**

Remarks	No sensitisation effect known.
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**Mutagenicity (Components)****Hydrochloric acid**

evaluation	No experimental information on genotoxicity in vitro available.
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**Experience in practice**

After Swallowing: burns in mouth, throat, oesophagus and gastrointetinal tract. Risk of perforation in the oesophagus and stomach.

**Other information**

The toxicological data are those of the pure product.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity**

Reference substance	Hydrochloric acid		
Species	golden orfe (Leuciscus idus)		
LC50	862		mg/l

**Fish toxicity (Components)****Hydrochloric acid**

Species	Gambusia affinis		
LC50	282		mg/l
Duration of exposure	96	h	

**Hydrochloric acid**

Species	Bluegill (Lepomis macrochirus)		
LC50	20.5		mg/l
Duration of exposure	24	h	

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**Daphnia toxicity (Components)****Hydrochloric acid**

Species	Daphnia magna	
EC50	0.45	mg/l
Duration of exposure	48	h
Method	OECD 202	

**Algae toxicity (Components)****Hydrochloric acid**

Species	Chlorella vulgaris	
ErC50	0.73	mg/l
Duration of exposure	72	h
Method	OECD 201	

**12.5. Results of PBT and vPvB assessment****Evaluation of persistence and bioaccumulation potential (Components)****Hydrochloric acid**

The product contains no PBT or vPvB substances.

**12.6. Other adverse effects****General information / ecology**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. The product causes changes in the pH value in the test system. The result relates to the unneutralized sample.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1789	1789	1789
14.2. UN proper shipping name	HYDROCHLORIC ACID (Hydrochloric acid)	HYDROCHLORIC ACID (Hydrochloric acid)	HYDROCHLORIC ACID (Hydrochloric acid)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		

## SECTION 15: Regulatory information \*\*\*

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

#### Water Hazard Class (Germany) \*\*\*

Water Hazard Class

WGK 1

(Germany)

Remarks

Derivation of WGK according to Annex 1 No. 5.2 AwSV

## SECTION 16: Other information

### Hazard statements listed in Chapter 3

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

### CLP categories listed in Chapter 3

Skin Corr. 1B

Skin corrosion, Category 1B

STOT SE 3

Specific target organ toxicity - single exposure, Category 3

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.