

Trade name: Acid hydrochloricum dil 10%

Substance number: 201371

Version: 6 / CH

Date revised: 18.08.2025

Replaces Version: 5 / CH

Print date: 18.08.25

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

### **1.1. Product identifier**

Acid hydrochloricum dil 10%

Item No. 20137100

### **Substance / product identification**

UFI WVN0-W1UU-QV1D-8AJV

### **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)

Met. Corr. 1 H290

Skin Corr. 1A H314

Eye Dam. 1 H318

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 \*\*\***

Danger

#### **Hazard statements \*\*\***

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

#### **Precautionary statements \*\*\***

P234 Keep only in original packaging.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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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.  
P310 Immediately call a POISON CENTER or doctor.

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

contains \*\*\* hydrochloric acid ... %

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**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	>= 10 < 20 %
Classification (Regulation (EC) No. 1272/2008)	
	STOT SE 3 H335
	Met. Corr. 1 H290
	Skin Corr. 1A H314
	Eye Dam. 1 H318

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

Eye Irrit. 2	H319	>= 10 < 25 %
Skin Corr. 1B	H314	>= 25 %
Skin Irrit. 2	H315	>= 10 < 25 %
STOT SE 3	H335	>= 10 %

ATE oral 900 mg/kg

Additional remarks:

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

**Further ingredients \*\*\*****water**

CAS No.	7732-18-5
EINECS no.	231-791-2
Concentration	>= 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**

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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****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 < 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

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Storage category (Switzerland)

8

substances

Caustic and corrosive substances

**Further information on storage conditions**

Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection \*\*\*****8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****hydrochloric acid ... %**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	15	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	8	mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)****hydrochloric acid ... %**

Type of value	PNEC	
Type	Freshwater	
Concentration	36	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	36	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	36	µg/l
Type of value	PNEC	
Type	Soil	
Concentration	0.036	mg/kg
Type of value	PNEC	
Conditions	Intermittend	
Concentration	45	µg/l

**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**

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

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**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**

<b>Physical state</b>	liquid
<b>Colour</b>	colourless, clear
<b>Odour</b>	pungent

**Melting point**

Remarks not determined

**Boiling point or initial boiling point and boiling range**

Value 85 °C

**Flammability**

Not self inflammable

**Flash point**

Value	°C
Remarks	Not applicable

**pH value**

Value	1
Temperature	20 °C

**Vapour pressure**

Value	23	hPa
Temperature	20	°C

**Density and/or relative density**

Value	appr. 1.1	g/cm <sup>3</sup>
Temperature	20	°C

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**9.2. Other information****Solubility in water**

Remarks Completely miscible

**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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE	8'877.49	mg/kg
	06	
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.	

**hydrochloric acid ... %**

Species	rat	
LD50	2222	mg/kg

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

**hydrochloric acid ... %**

Reference substance hydrogen chloride  
 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

**hydrochloric acid ... %**

Species rat (male)  
 LC50 45.6 mg/l  
 Duration of exposure 5 min

**hydrochloric acid ... %**

Species rat  
 NOAEC 15 mg/m<sup>3</sup>

**Skin corrosion/irritation**

Remarks Corrosive action on the skin and mucous membrane.

**Skin corrosion/irritation (Components)****hydrochloric acid ... %**

Species rabbit  
 Duration of exposure 1 h  
 Method OECD 404  
 Remarks Corrosive

**Serious eye damage/irritation**

Remarks strongly corrosive

**Serious eye damage/irritation (Components)****hydrochloric acid ... %**

Species rabbit eye  
 evaluation strongly corrosive  
 Method OECD 405

**Sensitization**

Remarks No sensitization effect known.

**Sensitization (Components)**

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**hydrochloric acid ... %**

Species guinea pig  
Remarks No sensitisation effect known.

**Subacute, subchronic, chronic toxicity (Components)****hydrochloric acid ... %**

Remarks No data available

**Mutagenicity (Components)****hydrochloric acid ... %**

evaluation No experimental information on genotoxicity in vitro available.

**Reproduction toxicity (Components)****hydrochloric acid ... %**

Remarks No indications of toxic effects were observed in reproduction studies in animals.

**Carcinogenicity (Components)****hydrochloric acid ... %**

Remarks negative on animals

**Specific Target Organ Toxicity (STOT) (Components)****hydrochloric acid ... %****Single exposure**

evaluation May cause respiratory irritation.  
Route of exposure inhalative  
Organs: Respiratory tract

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal 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 201	

**Algae toxicity (Components)****hydrochloric acid ... %**

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

**Bacteria toxicity (Components)****hydrochloric acid ... %**

Species	activated sludge	
EC50	0.23	mg/l
Duration of exposure	3	h
Method	OECD 209	

**12.2. Persistence and degradability****Biodegradability (Components)****hydrochloric acid ... %**

Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.
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**12.4. Mobility in soil****Mobility in soil (Components)****hydrochloric acid ... %**

Will not adsorb on soil.

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment \*\*\***

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. 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.

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**Disposal recommendations for packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

	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 (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

**CLP categories listed in Chapter 3**

Eye Dam. 1 Serious eye damage, Category 1  
Met. Corr. 1 Substance or mixture corrosive to metals, Category 1  
Skin Corr. 1A Skin corrosion, Category 1A  
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

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guarantee for any specific product properties and shall not establish a legally valid relationship.