

Trade name: Hydrochloric Acid 10% PH-T

Substance number: 336091

Version: 1 / CH

Date revised: 18.09.2023

Replaces Version: - / CH

Print date: 18.09.23

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

1.1. Product identifier

Hydrochloric Acid 10% PH-T

Item No. 33609100

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 Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 H335

Respiratory tract; Route of exposure: inhalative

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.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

P234 Keep only in original packaging.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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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****After inhalation**

Ensure supply of fresh air.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. After contact with skin, wash immediately with plenty of water.

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After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

Drink water in small gulps. Summon a doctor immediately.

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

Extinguishing measures to suit surroundings

Non suitable extinguishing media

Compatible with all usual extinguishing media.

5.2. Special hazards arising from the substance or mixture

Hydrogen chloride gas; The product is not combustible.

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

Use self-contained breathing apparatus. Use personal protective clothing.

Other information

Suppress gases/vapours/mists with water spray jet. Do not discharge into surface waters/groundwater.

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

Do not inhale vapours. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear protective equipment. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Neutralize. Clean up affected area.

6.4. Reference to other sections

Information regarding waste disposal, see Section 13.

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

Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Do not use metal containers and metal pinings. Keep tightly closed in a dry and cool place. Storage rooms must be properly ventilated.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	8	Caustic and corrosive substances

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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 ³

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 ³

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	45	µg/l

8.2. Exposure controls

General protective and hygiene measures

Remove contaminated, soaked clothing immediately and dispose of safely. Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Wash hands and face after work.

Respiratory protection

Short term: filter apparatus, combination filter E-P2

Hand protection

Gloves of nitrile rubber - NBR
 Appropriate Material nitrile rubber - NBR
 Material thickness 0.11 mm
 Breakthrough time 480 min
 Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield

Body protection

Protective clothing

Environmental exposure controls

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Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid		
Colour	colourless		
Odour	pungent		
Freezing point			
Value	-17		°C
Boiling point or initial boiling point and boiling range			
Value	102		°C
Flash point			
Remarks	Not applicable		
pH value			
Value	< 1		
Temperature	20		°C
Density and/or relative density			
Value	1.05		g/cm ³
Temperature	20		°C

9.2. Other information

Solubility in water			
Temperature	20		°C
Remarks	soluble		
Explosive properties			
evaluation	no		
Oxidising properties			
evaluation	Not oxidising		

SECTION 10: Stability and reactivity

10.1. Reactivity

Alkaline metals, Reaction with concentrated Sulfuric acid. Fluorine, aluminium (Al), formaldehyde, Metals, Strong bases, sulfides, Exothermic reaction with: amines, Potassium permanganate, Halogens, Aldehydes, vinyl methyl ether

10.2. Chemical stability

Possible incompatibility with materials listed under section 10.5.

10.3. Possibility of hazardous reactions

Explosion hazard with: Alkali metals, conc. sulphuric acid. Risk of ignition or formation of flammable gases or vapours with: Carbide. Lithium silicide. Fluor. Development of hazardous gases or vapours with: Aluminium. Hydrides. Formaldehyde. Metals. strong alkalis. Sulphides. Exothermic reaction with: Amines, potassium permanganate, salts of halogen oxyacids, semimetal oxides, semimetal hydrogen compounds, aldehydes, Vinyl methyl ether

10.4. Conditions to avoid

Possible incompatibility with materials listed under section 10.5.

10.5. Incompatible materials

Metals, Reactions with metals, with evolution of hydrogen.

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10.6. Hazardous decomposition products

In the event of fire the following can be released: Hydrogen chloride (HCl)

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 06	mg/kg
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	
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

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Remarks Irritating to skin.

Skin corrosion/irritation (Components)**hydrochloric acid ... %**Species rabbit
Remarks Corrosive**Serious eye damage/irritation**

Remarks Irritates the eyes.

Serious eye damage/irritation (Components)**hydrochloric acid ... %**Species rabbit eye
evaluation strongly corrosive
Method OECD 405**Sensitization (Components)****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.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****hydrochloric acid ... %**Species Gambusia affinis
LC50 282 mg/l

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Duration of exposure 96 h

hydrochloric acid ... %

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

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 ... %**

Remarks No data available.

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

Remarks Not applicable

12.3. Bioaccumulative potential**General information**

No data available

12.4. Mobility in soil**General information**

No data available

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**

No data available

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

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Disposal in compliance with local and national regulations.

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	II	II	II
Limited Quantity	1 I		
Transport category	2		

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

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

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

CLP categories listed in Chapter 3

Eye Dam. 1 Serious eye damage, Category 1

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Eye Irrit. 2

Eye irritation, Category 2

Met. Corr. 1

Substance or mixture corrosive to metals, Category 1

Skin Corr. 1A

Skin corrosion, Category 1A

Skin Irrit. 2

Skin irritation, Category 2

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.