

Trade name: Acid hydrochloricum 25%

Substance number: 201625

Version: 5 / CH

Date revised: 11.08.2025

Replaces Version: 4 / CH

Print date: 11.08.25

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

1.1. Product identifier

Acid hydrochloricum 25%

Item No. 20162500

Substance / product identification

UFI AK09-S3K2-DV1E-2ATK

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 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

H314 Causes severe skin burns and eye damage.

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.

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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.
 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 ... %

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	>= 25 < 45 %
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	>= 25 < 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

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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**Requirements for storage rooms and vessels**

Provide acid-resistant floor.

Hints on storage assembly

Not required.

Storage classes

Storage class according to TRGS 510 8B

Non-combustible corrosive hazardous substances

Storage category (Switzerland) 8

Caustic and corrosive substances

Further information on storage conditions

Keep container tightly closed.

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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	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

Hand protection

Gloves (acid-resistant)	
Appropriate Material	Polychloroprene
Material thickness	0.5 mm

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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****Physical state** liquid**Odour** characteristic**Melting point**

Remarks not determined

Boiling point or initial boiling point and boiling range

Value 45 °C

Method DIN 51761

Flammability

Not self inflammable

Flash point

Remarks Not applicable

pH value

Remarks Not applicable

Vapour pressure

Value 190.0 hPa

Temperature 20 °C

Method DIN 51754

Density and/or relative density

Remarks not determined

9.2. Other information**Solubility in water**

Remarks Completely miscible

Other information

The product is not dangerous for explosions.

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SECTION 10: Stability and reactivity

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	3'502.92	mg/kg
	69	

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	
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
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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 ³

Skin corrosion/irritation

Remarks	Corrosive action on the skin and mucous membrane.
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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
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Serious eye damage/irritation (Components)**hydrochloric acid ... %**

Species	rabbit eye		
evaluation	strongly corrosive		
Method	OECD 405		

Sensitization

Remarks	No sensitisation effect known.
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Sensitization (Components)**hydrochloric acid ... %**

Species	guinea pig		
Remarks	No sensitisation effect known.		

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

Remarks	No data available
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Mutagenicity (Components)**hydrochloric acid ... %**

evaluation	No experimental information on genotoxicity in vitro available.
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Reproduction toxicity (Components)**hydrochloric acid ... %**

Remarks	No indications of toxic effects were observed in reproduction studies in animals.
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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 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 (<i>Leuciscus idus</i>)	
LC50	862	mg/l

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

Species	<i>Gambusia affinis</i>	
LC50	282	mg/l
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	<i>Daphnia magna</i>	
EC50	0.45	mg/l
Duration of exposure	48	h
Method	OECD 201	

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

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

Bacteria toxicity (Components)

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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.

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.

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, Solution	HYDROCHLORIC ACID, Solution	HYDROCHLORIC ACID, Solution
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

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