

Trade name: Acid hydrochloricum conc 36%

Substance number: 202125

Version: 9 / CH

Date revised: 03.08.2023

Replaces Version: 8 / CH

Print date: 03.08.23

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

1.1. Product identifier

Acid hydrochloricum conc 36%

Item No. 20212500

Substance / product identification

REACH Registry No. 01-2119484862-27-xxxx

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**Chemical characterization**

Alcoholic solution

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

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

Remove affected person from danger area. Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment. If the patient is likely to become unconscious, place and transport in stable sideways position.

After skin contact

After contact with skin, wash immediately with plenty of water. Summon a doctor immediately.

After eye contact

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

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unaffected eye.

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Summon a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritating to respiratory system. Irritation of mucosa, Chemical burn, Vomiting, Coughing

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / treatment**

Treat symptomatically

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

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

5.2. Special hazards arising from the substance or mixture

Hydrogen chloride (HCl); Chlorine (Cl₂)

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

Wear full protective suit. Use self-contained breathing apparatus. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

Other information

Suppress vapours with water spray jet.

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

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr). Send in suitable containers for recovery or disposal. Rinse away rest with plenty of water. When picked up, treat material as prescribed under Section 13 "Disposal".

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

Handle and open container with care. When diluting, always stir product into water. Wear protective equipment. Ensure adequate ventilation. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. Avoid contact with skin and eyes. Avoid inhaling dusts/ billows/ steams.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

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Recommended storage temperature

Value < 25 °C

Requirements for storage rooms and vessels

Keep in a cool place. Provide acid-resistant floor. Suitable materials: Polyethylene/Polypropylene. Do not use metal containers and metal pinings.

Hints on storage assembly

Do not store together with: Alkalies, Alkalis, Metals

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. Keep in a cool place

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**

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. Do not inhale

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gases/vapours/aerosols.

Respiratory protection

Short term: filter apparatus, combination filter B-P2; At intensive and longer exposition use self-contained breathing apparatus. EN 141

Hand protection

Gloves (acid-resistant)

Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Breakthrough time	> 480	min	
Appropriate Material	nitrile rubber - NBR		
Material thickness	0.35	mm	
Breakthrough time	> 480	min	
Appropriate Material	Butyl rubber		
Material thickness	0.5	mm	
Breakthrough time	> 480	min	
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Breakthrough time	> 480	min	
Appropriate Material	PVC		
Material thickness	0.5	mm	
Breakthrough time	> 480	min	

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Hand protection must comply with EN 374.

Eye protection

Tightly fitting safety glasses; Face shield; Eye protection must comply with EN 166.

Body protection

Acid-resistant protective clothing

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

Physical state	liquid		
Colour	colourless to yellowish		
Odour	pungent		
Freezing point			
Value	appr. -42		°C
Boiling point or initial boiling point and boiling range			
Value	appr. 80		°C
Flash point			
Value	°C		
Remarks	Not applicable		
pH value			
Value	-1.1	to	-0.9
Source	calculated value		
Vapour pressure			
Value	appr. 30		hPa
Temperature	20		°C
Density and/or relative density			
Value	appr. 1.18		g/cm ³

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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

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

Heat

10.5. Incompatible materials

Metals, Strong oxidising agents, Reducing agents, sulfides, peroxides, nitrates

10.6. Hazardous decomposition products

Hydrogen chloride (HCl)

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 2'432.43 mg/kg
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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

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Administration/Form Source	Vapors NCBI Bookshelf 1998		
hydrochloric acid ... %			
Reference substance	hydrogen chloride		
Species	rat		
LC50	5600		ppm(V)
Duration of exposure	30	min	
Administration/Form Source	Vapors NCBI Bookshelf 1998		
hydrochloric acid ... %			
Reference substance	hydrogen chloride		
Species	mouse		
LC50	2100		ppm(V)
Duration of exposure	30	min	
Administration/Form Source	Vapors NCBI Bookshelf 1998		
hydrochloric acid ... %			
Reference substance	hydrogen chloride		
Species	guinea pig		
LC50	2519		ppm(V)
Duration of exposure	30	min	
Administration/Form Source	Vapors Kirsch and Drabk 1982		

Skin corrosion/irritation (Components)

hydrochloric acid ... %	
Species	rabbit
Remarks	Corrosive

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)

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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.

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

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.
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12.2. Persistence and degradability**Biodegradability**

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

Remarks	Not applicable
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12.4. Mobility in soil

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Mobility in soil

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code	No not dispose with rubbish.
EWC waste code	Should not be released into the sanitary sewer system.
In accordance with regulations for special waste, must be taken, to an authorised special waste incineration plant.	

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

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.
 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.

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