

Trade name: HCl 1N

Substance number: 336090

Version: 3 / CH

Date revised: 26.06.2023

Replaces Version: 2 / CH

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

1.1. Product identifier

HCl 1N
Item No. 33609000

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Chemical

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 person responsible for this SDS sdb@haenseler.ch

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

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

H290 May be corrosive to metals.

Precautionary statements

P234 Keep only in original packaging.
P390 Absorb spillage to prevent material damage.

2.3. Other hazards

The product contains no PBT or vPvB substances.

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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	>= 3 < 5 %
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	>= 10 < 25 %
Skin Corr. 1B	H314	>= 25 %
Skin Irrit. 2	H315	>= 10 < 25 %
STOT SE 3	H335	>= 10 %

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	>= 90 %
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

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off with water. Consult a doctor if symptoms occur.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. By continuous complaints consult a physician.

After ingestion

Rinse mouth thoroughly with water. In the event of symptoms take medical treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing measures to suit surroundings, Water spray jet, Alcohol-resistant foam, Dry chemical extinguisher, BC powder, Carbon dioxide

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Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

The product is not combustible.

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

Use self-contained breathing apparatus.

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

Avoid contact with skin, eyes and clothing. Do not inhale vapours.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Cover drains.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder). Send in suitable containers for recovery or disposal.

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**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 containers tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****Respiratory protection**

Breathing apparatus in the event of aerosol or mist formation. Gas filter class E.

Hand protection

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.

Appropriate Material	nitrile rubber - NBR	
Material thickness	0.11	mm
Breakthrough time	480	min

Hand protection must comply with EN 374.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Safety glasses with side protection shield

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Body protection

Protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Physical state** liquid**Colour** colourless**Melting point**

Remarks No data available

Boiling point or initial boiling point and boiling range

Remarks No data available

Flash point

Value °C

Remarks Not applicable

pH value

Remarks not determined

Vapour pressure

Remarks Not applicable

Density and/or relative density

Remarks not determined

9.2. Other information**Solubility in water**

Remarks soluble

Explosive properties

evaluation no

Oxidising properties

evaluation None known

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

Corrosive to metals.

10.2. Chemical stability

No decomposition if stored and applied as directed.

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

Metals, Product reacts with: Alkalis

10.6. Hazardous decomposition products

In the event of fire the following can be released: Irritant gases/vapours

SECTION 11: Toxicological information

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11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE	>	10'000	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 (Components)

hydrochloric acid ... %

Species	rabbit
Remarks	Corrosive

Serious eye damage/irritation (Components)

hydrochloric acid ... %

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

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

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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**General information**

Not applicable

Results of PBT and vPvB assessment (Ingredients)

hydrochloric acid ... %

The product contains no PBT or vPvB substances.

12.7. Other adverse effects**General information**

The product causes changes in the pH value in the test system. The result relates to the unneutralized sample. Do not allow 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.
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
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.
H335 May cause respiratory irritation.

CLP categories listed in Chapter 3

Met. Corr. 1 Substance or mixture corrosive to metals, Category 1
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.