

Trade name: Acid hydrochloricum 32%

Substance number: 202000

Version: 10 / CH

Date revised: 11.08.2025

Replaces Version: 9 / CH

Print date: 11.08.25

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Acid hydrochloricum 32%

Item No. 20200000

**Registration no.**

Registration no. 01-2119484862-27-XXXX

**Substance / product identification**

UFI MG3J-R0KE-D00T-DTC0

**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**

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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.  
 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	>= 25 < 44 %
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**

Adhere to personal protective measures when giving first aid. 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. Remove the casualty into fresh air and keep him calm.

**After skin contact**

Wash immediately with plenty of water for several minutes. Summon a doctor immediately.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

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**After ingestion**

Do not induce vomiting. No trials on neutralisation. Let plenty of water be drunk in small gulps. Ensure supply of fresh air. Summon a doctor immediately.

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

Chemical burn, Irritation of mucosa, bleeding vomiting

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

Treat symptomatically

**Hints for the physician / hazards**

Frequent and persistent contact with the skin can cause dermatitis. Risk of pulmonary oedema; Risk of stomach perforation

**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 (Cl<sub>2</sub>)

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

Wear full protective suit. Use self-contained breathing apparatus.

**Other information**

Cool endangered containers with water spray jet. Suppress vapours with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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

Wear protective equipment. Keep people away and stay on the upwind side. Ensure adequate ventilation. Avoid contact with eyes and skin. Do not inhale vapours.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Advise water authority if spillage has entered water course or drainage system.

**6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Take up mechanically and collect in suitable container for disposal. When picked up, treat material as prescribed under Section 13 "Disposal". Flush away residues with water.

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

When diluting, always stir product into water. Handle and open container with care. Wear protective equipment. Provide good ventilation of working area (local exhaust ventilation if necessary). Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. Avoid contact with skin, eyes and clothing. Avoid inhaling dusts/ billows/ steams.

**Advice on protection against fire and explosion**

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The product is not combustible.

## 7.2. Conditions for safe storage, including any incompatibilities

### Recommended storage temperature

Value 15 - 25 °C

### Requirements for storage rooms and vessels

Provide acid-resistant floor. Do not use metal containers and metal pinings. Use polyethylene or polypropylene containers.

### Hints on storage assembly

Do not store together with foodstuffs. Do not store together with: Metals, Alkalies

### 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, cool and well-ventilated 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 <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

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Type of value	PNEC	
Conditions	Intermittend	
Concentration	45	µg/l

## 8.2. Exposure controls

### General protective and hygiene measures

Hold eye wash fountain available. Keep away from food-stuffs, beverages and feed-stocks. Remove contaminated, soaked clothing immediately and dispose of safely. Wash hands before breaks and after work. Avoid contact with skin and eyes.

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter B-P2; At intensive and longer exposition use self-contained breathing apparatus. In case of insufficient ventilation, wear suitable respiratory equipment.

### Hand protection

Gloves (acid-resistant)

Protective gloves

Appropriate Material

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.

Gloves

Appropriate Material

Polychloroprene

Material thickness 0.5 mm

Breakthrough time >= 8 h

Gloves

Appropriate Material

nitrile rubber - NBR

Material thickness 0.35 mm

Breakthrough time >= 8 h

Gloves

Appropriate Material

Butyl rubber - Butyl

Material thickness 0.5 mm

Breakthrough time >= 8 h

Gloves

Appropriate Material

Fluoro carbon rubber - FKM

Material thickness 0.4 mm

Breakthrough time >= 8 h

Gloves

Appropriate Material

Vinyl-PVC

Material thickness 0.5 mm

Breakthrough time >= 8 h

Not suitable: gloves of natural latex

Not suitable: leather gloves

Not suitable: leather gloves

### 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

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<b>Colour</b>	clear, colorless, light yellow		
<b>Odour</b>	pungent		
<b>Freezing point</b>			
Value	-42		°C
<b>Boiling point or initial boiling point and boiling range</b>			
Value	80		°C
<b>Flammability</b>	non flammable		
<b>Flash point</b>			
Value			°C
Remarks	Not applicable		
<b>pH value</b>			
Value	<	1	
Temperature		20	°C
<b>Viscosity</b>			
Remarks	No data available		
<b>Partition coefficient n-octanol/water (log value)</b>			
Remarks	No data available		
<b>Vapour pressure</b>			
Value	30		hPa
Temperature	20		°C
<b>Density and/or relative density</b>			
Value	1.14	to	1.18 g/cm <sup>3</sup>
Temperature	20		°C

**9.2. Other information****Odour threshold**

Remarks No data available

**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. No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under recommended storage and handling conditions (see section 7).

**10.3. Possibility of hazardous reactions**

Keep away from free radical initiators, peroxides, strong alkalis or reactive metals.

**10.4. Conditions to avoid**

Heat. Protect from frost. Protect from direct sunlight.

**10.5. Incompatible materials**

Reactions with alkalies. Reactions with metals, with evolution of hydrogen. Reactions with oxidising agents. Explosive, amines, Fluorine, Strong oxidising agents, cyanide, Alkalis

**10.6. Hazardous decomposition products**

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Hydrogen chloride (HCl), Chlorine, Hydrogen

**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	2'608.69	mg/kg
	57	
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	
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)

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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**

Species rabbit  
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**

Species rabbit  
Remarks strongly corrosive  
Remarks Risk of serious damage to eyes.

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

Species rabbit eye  
evaluation strongly corrosive  
Method OECD 405

**Sensitization**

Species guinea pig  
Remarks No sensitisation effect known.

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

Species guinea pig  
Remarks No sensitisation effect known.

**Subacute, subchronic, chronic toxicity**

Remarks edema pulmonary  
Remarks Risk of blindness.  
Remarks necroses

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

Remarks No data available

**Mutagenicity**

evaluation No mutagenicity according to various in vitro tests.

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

evaluation No experimental information on genotoxicity in vitro available.

**Reproductive toxicity**

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



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animals.

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

Remarks

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

**Carcinogenicity**

Remarks

No evidence available on carcinogenicity.

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

Remarks

negative on animals

**Specific Target Organ Toxicity (STOT)****Single exposure**

evaluation

May cause damage to organs.

Organs: Respiratory tract

**Repeated exposure**

evaluation

No indications of STOT effects are available.

**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**

Ingestion of aqueous solution causes burns in: Mouth. Throat. Perforation of gullet 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)**

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**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**

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

Remarks	Inorganic product, cannot be eliminated from the water by biological purification processes.
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**12.3. Bioaccumulative potential****General information**

Not relevant

**Partition coefficient n-octanol/water (log value)**

Remarks	No data available
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**12.4. Mobility in soil****Mobility in soil**

Will not adsorb on 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****Behaviour in sewers [waste treatment plants]**

The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

**General information / ecology**

Harmful to aquatic organisms. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Neutralization is normally necessary before waste water is

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discharged into water treatment plants.

## 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.

Disposal in compliance with local and national regulations.




#### Disposal recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed off as product waste.

Disposal in compliance with local and national regulations.

## 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, 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

WGK 1

(Germany)

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.

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**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.