

Trade name: Acid hydrochloricum 25%

Substance number: 201625

Version: 4 / CH

Date revised: 17.12.2018

Replaces Version: 3 / CH

Print date: 02.10.19

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

1.1. Product identifier

Acid hydrochloricum 25%

Item No. 20162500

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. 1B H314

STOT SE 3 H335

Eye Dam. 1 H318

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.

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.

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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

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) | | | | | |
| | 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 |

| | |
|-----|------------------------------------------------|
| CLP | Regulation (EC) No 1272/2008, Annex VI, Note B |
| DSD | Directive 67/548/EEC, Annex I, Note B |

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

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.

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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.

Further information on storage conditions

Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

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 | |
| 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 | | |
|----------------------|----------------------------|--|--|

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| | | | |
|-------------------------|-----|-----|----|
| 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****Form** liquid**Odour** characteristic**pH value**

Remarks Not applicable

Melting point

Remarks not determined

Initial boiling point and boiling range

Value 45 °C

Method DIN 51761

Flash point

Remarks Not applicable

Flammability (solid, gas)

Not self inflammable

Vapour pressure

Value 190.0 hPa

Temperature 20 °C

Method DIN 51754

Density

Remarks not determined

Solubility in water

Remarks Completely miscible

9.2. Other information**Other information**

The product is not dangerous for explosions.

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

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Other information

When diluting, add acids to water, never the other way around.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

| | | |
|--------|--------------------------------------------------|-------|
| ATE | 3'461.53 | mg/kg |
| | 85 | |
| 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 Corrosive action on the skin and mucous membrane.

Serious eye damage/irritation

Remarks strongly corrosive

Sensitization

Remarks No sensitisation effect known.

Experience in practice

After Swallowing: burns in mouth, throat, oesophagus and gastrointestinal 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 (Leuciscus idus) | |
| LC50 | 862 | mg/l |

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 |

12.6. 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 Classification according to Annex 4 VwVwS

SECTION 16: Other information

Hazard statements listed in Chapter 3

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

CLP categories listed in Chapter 3

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.