

Trade name: Acid hydrochloricum 4N (14%)

Substance number: 185180

Version: 3 / CH

Date revised: 30.12.2016

Replaces Version: 2 / CH

Print date: 30.12.16

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

1.1. Product identifier

Acid hydrochloricum 4N (14%)

Item No. 18518000

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 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 Irrit. 2 H315

Eye Irrit. 2 H319

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 ***

Warning

Hazard statements ***

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H319 Causes serious eye 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.

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P302+P352x
P501.3IF ON SKIN: Wash with plenty of water/...
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 *****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******Hydrochloric acid**

| | | | | | |
|--|-----------------------|---|----|--|------|
| CAS No. | 7647-01-0 | | | | |
| EINECS no. | 231-595-7 | | | | |
| Registration no. | 01-2119484862-27-XXXX | | | | |
| Concentration | >= 10 | < | 20 | | % |
| Classification (Regulation (EC) No. 1272/2008) | Skin Corr. 1B | | | | H314 |
| | STOT SE 3 | | | | H335 |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|---------------|------|------------|
| STOT SE 3 | H335 | >= 10 |
| Skin Corr. 1B | H314 | >= 25 |
| Skin Irrit. 2 | H315 | >= 10 < 25 |
| Eye Irrit. 2 | H319 | >= 10 < 25 |

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

Further ingredients *****Water**

| | | | | | |
|---------------|-----------|----|----|--|---|
| CAS No. | 7732-18-5 | | | | |
| EINECS no. | 231-791-2 | | | | |
| Concentration | | >= | 50 | | % |
| Advice: [4] | | | | | |

Advice:

[4] Voluntary information

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

Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately. Remove affected person from danger area. In case of accident or if you feel unwell, seek medical advice immediately.

After inhalation

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. Take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Remove contaminated, soaked clothing immediately and dispose of safely. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Eye treatment by an Oculist.

After ingestion

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If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

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

Non suitable extinguishing media

not applicable

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Hydrogen chloride gas; Carbon dioxide (CO₂); Carbon monoxide (CO)

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

Do not allow run-off from fire fighting to enter drains or water courses. Do not inhale explosion and/or combustion gases. Cool closed containers exposed to fire with water. Use self-contained breathing apparatus. Use personal protective clothing.

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

Do not inhale dust. Respiratory protection. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Wear protective equipment

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean contaminated floors and objects thoroughly, observing environmental regulations. Take up with absorbent material (eg sand, kieselguhr). Send in suitable containers for recovery or disposal. Provide adequate ventilation.

6.4. Reference to other sections

Clear spills immediately. Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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

Avoid inhaling dusts/ billows/ steams. Avoid contact with skin, eyes and clothing. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Handle and open container with care.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

| | | | |
|-------|----|----|----|
| Value | 15 | 25 | °C |
|-------|----|----|----|

Requirements for storage rooms and vessels

Keep container tightly closed in a well-ventilated place. Do not use metal containers and metal pinings.

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Hints on storage assembly

Do not store with alkalies.

7.3. Specific end use(s)

Reagent for analyses; In Vitro Diagnostic Medical Device

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

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

General protective and hygiene measures

Hold eye wash fountain available. Avoid any contact with the body. Do not inhale gases/vapours/aerosols.

Respiratory protection

necessary; Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter E-P2

Hand protection

Use Short-term hand contact

Appropriate Material Polychloroprene

Material thickness 0.13 mm

Breakthrough time 101 min

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Appropriate Material nitrile rubber - NBR

Material thickness \geq 0.2 mm**Eye protection**

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing; Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties****Form** liquid**Colour** colourless, clear**Odour** slightly pungent**pH value *****Value $<$ 1
Temperature 20 °C**Melting point**

Remarks not determined

Initial boiling point and boiling rangeValue $>$ 100 °C**Flash point**

Remarks Not applicable

Vapour pressureValue 23 hPa
Temperature 20 °C

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Density ***

| | | | |
|-------------|-----------|----|-------------------|
| Value | appr. 1.1 | | g/cm ³ |
| Temperature | 20 | °C | |

Solubility in water

| | |
|---------|---------------------|
| Remarks | Completely miscible |
|---------|---------------------|

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

Reacts violently with: Alkalis, Alkaline metals, Metals, Potassium permanganate, Reaction with concentrated Sulfuric acid.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Powdered metals

10.4. Conditions to avoid

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

10.5. Incompatible materials

Metals

10.6. Hazardous decomposition products

Hazardous determin decomposition products: Hydrogen chloride (HCl), None under normal use.

Other information

Corrosive to metals.

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

| | | |
|-----|----------|-------|
| ATE | 5'933.79 | mg/kg |
| | 47 | |

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) |

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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

evaluation irritant

Serious eye damage/irritation

evaluation irritant - risk of serious damage to eyes
Remarks Risk of serious damage to eyes.

Specific Target Organ Toxicity (STOT)

evaluation May cause damage to organs.
Route of exposure inhalative
Organs: Respiratory tract

Other information

Observe the usual precautions for handling chemicals.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity (Components)****Hydrochloric acid**

Species Gambusia affinis
LC50 282 mg/l
Duration of exposure 96 h

12.2. Persistence and degradability**General information**

For this subsection there is no ecotoxicological data available on the product as such.

12.4. Mobility in soil**General information**

For this subsection there is no ecotoxicological data available on the product as such.

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12.5. Results of PBT and vPvB assessment

General information

For this subsection there is no ecotoxicological data available on the product as such.

12.6. Other adverse effects

General information

There is no data available on the product apart from the information given in this subsection.

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 ***

Land transport ADR/RID ***

14.1. UN number

UN 1789

14.2. UN proper shipping name

HYDROCHLORIC ACID, Solution

14.3. Transport hazard class(es)

| | |
|-------|---|
| Class | 8 |
| Label | 8 |

14.4. Packing group

| | |
|-------------------------|-----|
| Packing group | II |
| Limited Quantity | 1 I |
| Transport category | 2 |
| Tunnel restriction code | E |

Marine transport IMDG/GGVSee ***

14.1. UN number

UN 1789

14.2. UN proper shipping name

HYDROCHLORIC ACID, Solution

14.3. Transport hazard class(es)

| | |
|-------|---|
| Class | 8 |
|-------|---|

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
|---------------|----|

Air transport ICAO/IATA ***

14.1. UN number

UN 1789

14.2. UN proper shipping name

HYDROCHLORIC ACID, Solution

14.3. Transport hazard class(es)

| | |
|-------|---|
| Class | 8 |
|-------|---|

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
|---------------|----|

SECTION 15: Regulatory information

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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 Self-assessment

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

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.