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

## 1.1. Product identifier

Acid hydrochloricum 3.2% / Geistlich
Item No. 33606000

## 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

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

## 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

### Supplemental information

EUH210 Safety data sheet available on request.

## 2.3. Other hazards

No special hazards have to be mentioned.

# 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 |

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 | | >= | 90 | % |

Advice: [4]

**Note**

[4] Voluntary information

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**

In case of persistent symptoms consult doctor.

**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 warm water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

**After ingestion**

Rinse out mouth and give plenty of water to drink.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Foam, Carbon dioxide, Dry powder, Water spray jet

### 5.3. Advice for firefighters

**Special protective equipment for fire-fighting**

In case of combustion use a suitable breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

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

Pick up with absorbent material. Clean contaminated floors and objects thoroughly, observing environmental regulations.

### 6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling**

Observe the usual precautions for handling chemicals.

**Advice on protection against fire and explosion**

No special measures required.

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

**Requirements for storage rooms and vessels**

Store product in closed containers.

**Hints on storage assembly**

Do not store together with foodstuffs.

**Storage classes**

Storage class according to TRGS 510 12 Non-combustible liquids

**Further information on storage conditions**

Keep container tightly closed and dry.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Other information**

Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

**General protective and hygiene measures**

Observe the usual precautions for handling chemicals.

**Respiratory protection**

Not necessary, but do not inhale vapours. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

**Hand protection**

Appropriate Material neoprene

**Eye protection**

Safety glasses

**Body protection**

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 threshold**

Remarks not determined

**pH value**

Value < 4

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Initial boiling point and boiling range**

Remarks not determined

**Flash point**

Remarks Not applicable

**Evaporation rate (ether = 1) :**

Remarks not determined

**Flammability (solid, gas)**

not determined

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour pressure**

Remarks Not applicable

**Vapour density**

Remarks not determined

**Density**

Remarks not determined

**Solubility in water**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**Viscosity**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

## 9.2. Other information

**Other information**

None known

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

No dangerous reactions known.

## 10.2. Chemical stability

No decomposition if stored and applied as directed.

## 10.3. Possibility of hazardous reactions

No hazardous reactions known.

## 10.4. Conditions to avoid

No hazardous reactions known.

## 10.5. Incompatible materials

None known

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

### 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 dermal toxicity

| | |
|---|---|
| Remarks | not determined |

### Acute inhalational toxicity

| | |
|---|---|
| Remarks | not determined |

### 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

Remarks not determined

### Serious eye damage/irritation

Remarks not determined

### Sensitization

Remarks not determined

### Subacute, subchronic, chronic toxicity

Remarks not determined

### Mutagenicity

Remarks not determined

### Mutagenicity (Components)

**Hydrochloric acid**

evaluation No experimental information on genotoxicity in vitro available.

### Reproductive toxicity

Remarks not determined

### Carcinogenicity

Remarks not determined

### Other information

No toxicological data are available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

not determined

#### 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 202 | | |

### Algae toxicity (Components)

**Hydrochloric acid**

| | | | |
|---|---|---|---|
| Species | Chlorella vulgaris | | |
| ErC50 | 0.73 | | mg/l |
| Duration of exposure | 72 | h | |
| Method | OECD 201 | | |

## 12.2. Persistence and degradability

### General information

not determined

## 12.3. Bioaccumulative potential

### General information

not determined

### Partition coefficient: n-octanol/water

Remarks not determined

## 12.4. Mobility in soil

### General information

not determined

## 12.5. Results of PBT and vPvB assessment

### General information

not determined

## 12.6. Other adverse effects

### General information

not determined

### General information / ecology

Do not discharge product unmonitored into the environment.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

### Disposal recommendations for the product

Disposal in compliance with local and national regulations.
Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

### Disposal recommendations for packaging

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

# SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|---|---|---|---|
| **14.1. UN number** | Non-dangerous goods | The product does not constitute a hazardous substance in sea transport. | The product does not constitute a hazardous substance in air transport. |

# 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 preparation 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.