



Trade name: Acid hydrochloricum 18%

Substance number: 185200

Version: 1 / CH

Date revised: 14.05.12

Replaces Version: - / CH

Date of printing: 14.05.12

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Acid hydrochloricum 18%

Item-No. 18520000

### 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 person responsible for this SDS  
sdb@haenseler.ch

### 1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

## 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 Dam. 1	H319
STOT SE 3	H335

#### Classification in accordance with EC directives

Classification Xi, R36/37/38

### 2.2. Label elements

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

#### Hazard pictograms



#### Signal Word

Warning

#### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
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.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.



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**Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

Irritant

**R phrases**

36/37/38 Irritating to eyes, respiratory system and skin.

**S phrases**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

**Hazardous component(s) to be indicated on label**

contains Hydrochloric acid

**3. Composition/information on ingredients****Hazardous ingredients****Hydrochloric acid**

EINECS no.	231-595-7				
Concentration	>= 10	<	25	%	
Classification	Xi, R37				
	C, R34				

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
STOT SE 3	H335	>= 10
Skin Irrit. 2	H315	<= 10 < 25

**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.). Begin with medical treatment.

**After ingestion**



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Rinse out mouth and give plenty of water to drink. Ensure supply of fresh air. Summon a doctor immediately.

## **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.

## **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 heading "Disposal". Ensure adequate ventilation.

## **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.

## **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 eyes and skin. Hold eye wash fountain available.

#### **Respiratory protection**



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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	
Penetrating time	>= 8	h	
Gloves (acid-resistant)			
Appropriate Material	nitrile rubber - NBR		
Material thickness	0.35	mm	
Penetrating time	>= 8	h	
Gloves (acid-resistant)			
Appropriate Material	Butyl rubber		
Material thickness	0.5	mm	
Penetrating time	>= 8	h	
Gloves (acid-resistant)			
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Penetrating time	>= 8	h	
Gloves (acid-resistant)			
Appropriate Material	PVC		
Material thickness	0.5	mm	
Penetrating time	>= 8	h	

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Protective clothing

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Form</b>	liquid		
<b>Odour</b>	characteristic		
<b>pH</b>			
Remarks	Not applicable		
<b>Melting point</b>			
Remarks	Not determined		
<b>Boiling point</b>			
Value	45	°C	
method	DIN 51761		
<b>Flash point</b>			
Remarks	Not applicable		
<b>Flammability</b>			
Not self inflammable			
<b>Vapour pressure</b>			
Value	190.0	hPa	
Temperature	20	°C	
method	DIN 51754		
<b>Density</b>			
Remarks	Not determined		



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**Solubility in water**

Remarks Completely miscible

**9.2. Other information****Other information**

The product is not dangerous for explosions.

**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

**Other information**

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

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

Reference substance	Hydrochloric acid	
Species	rabbit	
LD50	900	mg/kg

**Acute inhalational toxicity**

Reference substance	Hydrochloric acid	
Species	rat	
LC50	312	ppm(V)
Duration of exposure	1	h

Reference substance	Hydrochloric acid	
Species	rat	
LC50	4701	ppm(V)
Duration of exposure	30	min

Reference substance	Hydrochloric acid	
Species	Human	
LCLo	1300	ppm(V)
Duration of exposure	30	min

**Skin corrosion/irritation**

Remarks Irritating to skin.

**Serious eye damage/irritation**

Remarks Irritates the eyes.

**Sensitization**

Remarks No sensitiation 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.



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## **12. Ecological information**

### **12.1. Toxicity**

#### **Fish toxicity**

Reference substance	Hydrochloric acid	
Species	golden orfe (Leuciscus idus)	
LC50	862	mg/l

### **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.

## **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.

## **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

### **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



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## **15. Regulatory information**

## **16. Other information**

### **R-phrases listed in chapter 3**

34	Causes burns.
37	Irritating to respiratory system.

### **Hazard statements listed in chapter 3**

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

### **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.