

according to Regulation (EC) No 1907/2006

Hydrochloric acid, conc. 25%, 1 I

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

#### 1.1. Product identifier

Hydrochloric acid, conc. 25%, 1 I

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals

#### 1.3. Details of the supplier of the safety data sheet

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

**1.4. Emergency telephone** +49 (0)681 302-71232

number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: T - Toxic, C - Corrosive

R phrases: Causes burns.

Irritating to respiratory system.

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Harmful if inhaled.

# 2.2. Label elements

# Hazardous components which must be listed on the label

hydrogen chloride

Signal word: Danger

Pictograms: GHS05-GHS07



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#### **Hazard statements**

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

## **Precautionary statements**

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/doctor.

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Hazardous components**

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-595-7	hydrogen chloride	25 - < 30 %
7647-01-0	T - Toxic, C - Corrosive R23-35	
017-002-00-2	Acute Tox. 3, Skin Corr. 1A; H331 H314	

Full text of R-, H- and EUH-phrases: see section 16.

### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

### **General information**

First aider: Pay attention to self-protection! Move victim out of danger zone.

### After inhalation

Provide fresh air. In case of breathing difficulties administer oxygen. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

#### After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Medical treatment necessary.

### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No data available

## **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media



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#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## 5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

The product needs to apply neutralizing agents before draining to wastewater treatment plants. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

## Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

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

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

### 8.2. Exposure controls

## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.



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#### Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN):

**DIN EN 166** 

## **Hand protection**

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

## Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless clear
Odour: No data available

Test method

pH-Value: No data available

Changes in the physical state

Initial boiling point and boiling range: 100 °C Sublimation point: No data available Softening point: No data available Flash point: No data available

**Flammability** 

Solid:
Gas:
No data available
No data available
No data available
Upper explosion limits:
No data available
Upper explosion limits:
No data available
Ignition temperature:
No data available

**Auto-ignition temperature** 

Solid: No data available Gas: No data available No data available Vapour pressure: No data available Vapour pressure: Density (at 25 °C): 1,2 g/cm<sup>3</sup> Water solubility: No data available Partition coefficient: No data available Viscosity / dynamic: No data available Viscosity / kinematic: No data available Flow time: No data available No data available Vapour density: No data available Evaporation rate: Solvent separation test: No data available



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Solvent content: No data available

9.2. Other information

Solid content: No data available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

### 10.3. Possibility of hazardous reactions

No data available

# 10.4. Conditions to avoid

No data available

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

Toxicological data are not available.

## **Acute toxicity**

Toxic. Acute toxicity, inhalant.

#### **ATEmix calculated**

ATE (inhalative vapour) 12,00 mg/l; ATE (inhalative aerosol) 2,000 mg/l

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7647-01-0	hydrogen chloride				
	inhalative vapour	ATE	3 mg/l		
	inhalative aerosol	ATE	0,5 mg/l		

## Irritation and corrosivity

after ingestion: Irritant and corrosive effects. Potential hazards: Stomach perforation.

# Sensitising effects

No data available

#### Severe effects after repeated or prolonged exposure

No data available

### Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

### Specific effects in experiment on an animal

No data available

#### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## **Practical experience**

## Observations relevant to classification

No data available

## **SECTION 12: Ecological information**



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#### 12.1. Toxicity

No data available

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

#### **Further information**

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

## Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

## Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded

chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal

packaging waste); packaging containing residues of or contaminated by dangerous substances

Classified as hazardous waste.

## Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

**14.1. UN number:** UN1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Classification code:C1Special Provisions:520



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Limited quantity:1 LTransport category:2Hazard No:80Tunnel restriction code:E

Other applicable information (land transport)

E2

## Inland waterways transport (ADN)

**14.1. UN number**: UN1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Classification code:C1Special Provisions:520Limited quantity:1 L

## Other applicable information (inland waterways transport)

E2

## Marine transport (IMDG)

**14.1. UN number:** UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:-Limited quantity:1 LEmS:F-A, S-B

#### Other applicable information (marine transport)

F2

## Air transport (ICAO)

**14.1. UN number:** UN 1789

14.2. UN proper shipping name: HYDROCHLORIC ACID

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:0.5 L

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

### Other applicable information (air transport)

E2 : Y840

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

## **SECTION 15: Regulatory information**



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## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EU** regulatory information

## **Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

## **National regulatory information**

Water contaminating class (D): 3 - highly water contaminating

## **SECTION 16: Other information**

#### Relevant R-phrases (Number and full text)

Toxic by inhalation.
Causes severe burns.

#### Relevant H- and EUH-phrases (Number and full text)

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled. H332 Harmful if inhaled.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)