



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**IconEtch**

Print date: 20.04.2016

Product code: 6102

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**Chemical characterization**

Hydrochloric (HCl).

Sum formula: HCl

Molecular weight: 36,46

**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		
	Hydrochloric (HCl).	15 - 20 %
7647-01-0	C - Corrosive, Xi - Irritant R34-37	

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

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air. Consult physician.

If victim is at risk of losing consciousness, position and transport on their side.

**After contact with skin**

After contact with skin, wash immediately with plenty of water. Remove contaminated clothing immediately and dispose off safely.

**After contact with eyes**

Move victim out of danger zone. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult physician.

**After ingestion**

Do not induce vomiting. Rinse mouth immediately and drink large quantities of water. Consult physician.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****5.2. Special hazards arising from the substance or mixture**

Material is not combustible.

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

The following must be prevented: inhalation. skin contact. Eye contact. Wear suitable protective clothing.

**6.2. Environmental precautions**

Do not empty into drains or the aquatic environment.

**6.3. Methods and material for containment and cleaning up**Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Suitable material for diluting or neutralizing: lime-Water. , "lime water" Ca(OH)<sub>2</sub> aq.**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

Wear suitable protective clothing and gloves. Avoid contact with eyes.

**Further information on handling**

Keep container tightly closed.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Suitable material for Container: Glass. material, acid proof.

**Advice on storage compatibility**

Do not store together with: Alkalis (alkalis). metal.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	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****Protective and hygiene measures**

When using do not eat or drink.

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber):.0,4mm

**Respiratory protection**

The following must be prevented: inhalation. Exceeding critical value: Filter respirator (full mask or mouth-piece) with filter: A

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

Physical state: Paste  
 Colour: green  
 Odour: pungent

**Test method**

pH-Value: ca.1

**Changes in the physical state**

point of decomposition: &gt;100 °C

Lower explosion limits:

Upper explosion limits:

Vapour pressure: ca.21 hPa  
(at 20 °C)

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Density (at 20 °C):

ca 1,1 g/cm<sup>3</sup>

Water solubility:

miscible.

### SECTION 10: Stability and reactivity

#### 10.4. Conditions to avoid

at °C: ca 100-point of decomposition

#### 10.5. Incompatible materials

metals in powder form. metal. amines. Alkalis (alkalis).

#### 10.6. Hazardous decomposition products

Hydrochloric (HCl).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

Acute toxicity, oral LD50: (species: Rat.): 3000 ppm (Vol.)/1h

##### Irritation and corrosivity

Irritant effect on the eye: corrosive. Risk of serious damage to eyes.

Irritant effect on the skin: Causes burns.

Following inhalation: Coughing. shortage of breath. Gas / vapours, irritant.

After ingestion: Causes burns. Nature of Hazard: Stomach perforation.

##### Additional information on tests

highly caustic.

### SECTION 12: Ecological information

#### Further information

Leakage into the environment must be prevented.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

Remove according to the regulations.

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

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 1789  
**14.2. UN proper shipping name:** HYDROCHLORIC ACID  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8

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Classification code: C1  
 Special Provisions: 520  
 Limited quantity: 1 L  
 Transport category: 2  
 Hazard No: 80  
 Tunnel restriction code: E

**Other applicable information (land 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):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: -  
 Limited quantity: 1 L  
 EmS: F-A, S-B

**Other applicable information (marine transport)**

E2

**Air transport (ICAO)**

**14.1. UN number:** UN 1789  
**14.2. UN proper shipping name:** HYDROCHLORIC ACID  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
 Hazard label: 8



Special Provisions: A3  
 Limited quantity Passenger: 0.5 L  
 IATA-packing instructions - Passenger: 851  
 IATA-max. quantity - Passenger: 1 L  
 IATA-packing instructions - Cargo: 855  
 IATA-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****National regulatory information****SECTION 16: Other information****Relevant R-phrases (Number and full text)**

- 34 Causes burns.
- 37 Irritating to respiratory system.

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

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.

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