

Colour like Chromium

# Safety Data Sheet



Dieselstrasse 25  
D-73660 Urbach / Rems  
Telefon +49 7181 9854840  
Telefax +49 7181 98548422  
web.: www.wt-direct.de

## CLC Activator concentrate Solution

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

Product name: **CLC Activator concentrate solution**

Use of the substance/  
preparation For industrial use only; Surface technology

Company/undertaking identification

**WT-DIRECT GmbH**  
3-D water transfer printing & equipment  
Dieselstraße 25  
D-73660 Urbach

Telephone-No.: +49(0) 7181 98 54 84 0  
Fax-Nr: +49(0) 7181 98 54 84 22  
E - Mail - Address: [info@wt-direct.de](mailto:info@wt-direct.de)  
Emergency telephone No.: 0049-7181-985484-0  
Contact for information: [info@wt-direct.de](mailto:info@wt-direct.de)

### 2. Hazards identification

Causes burns, Irritating to respiratory system

### 3. Composition / information on ingredients

Aqueous solution

Hazardous ingredients:

Name according to EC Directives *	CAS-No.:	%	EC-No.:	Classification
Hydrochloride acid	7647-01-0	1 - 33	231-595-7	C, R 34
Tin dichloride, Stannous chloride	10025-69-1	> 25	231-868-0	Xn; 22-36/37/38-43

(Full text of R/H-Phrases in heading 16)

### 4. First aid measures

After inhalation: fresh air. Call in physician.  
After skin contact: wash off with plenty of water. Dab with polyethylene glycol 400. Immediately remove contaminated clothing. Call in physician.  
After eye contact: rinse out with plenty of water with the eyelid held wide open. Immediately call in ophthalmologist.  
After swallowing: make victim drink water (two glasses at the most), avoid vomiting (risk of perforation!). Immediately call in physician. Do not attempt to neutralize.

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### 5. Fire-fighting measures

Suitable extinguishing media:

In adaption to materials stored in the immediate neighbourhood.

Special risks:

Non - combustible. Ambient fire may liberate hazardous vapours. The following may develop in event of fire: hydrochloric acid.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

### 6. Accidental release measures

Person-related precautionary measures:

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

Environmental-protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up with liquid-absorbent and neutralizing material. Forward for disposal. Clean up affected area.

### 7. Handling and storage

Handling: No further requirements.

Storage: Tightly closed. Dry. Store at +2°C to +25° C.

Requirements for storage rooms and containers:

No metal containers.

### 8. Exposure controls/personal protection

Specific control parameter

EC

Name: Hydrogen chloride

Value: 5 ml/m<sup>3</sup>

8 mg/m<sup>3</sup>

Short term (<15 min.) 10 ml/m<sup>3</sup>

15 mg/m<sup>3</sup>

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Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when vapours/aerosols are generated. filter E-(P2)

Eye protection: required

Hand protection: In full contact:

Glove material: nitrile rubber

Layer thickness: 0.11mm

Breakthrough time: > 480Min.

In splash contact:

Glove material: natural latex

Layer thickness: 0.6mm

Breakthrough time: > 120Min.

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374, for example KCL 741 Dermatril™L (full contact), 706 Lapren™ (splash contact). The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Other protective: Acid-resistant protective clothing.  
equipment:

Industrial hygiene:

Immediately change contaminated clothing. Apply skin - protective barrier cream. Wash hands and face after working with substance.

### 9. Physical and chemical properties

Form:	liquid
Colour:	colourless
Odour:	pungent
pH value (20 °C)	< 1
Melting point	~ -70°C
Boiling point	107°C
Ignition temperature	not available
Flash point	not available
Explosion limits	lower not available upper not available
Vapour pressure (20 °C)	12 hPa
Density (20 °C)	~ 1.12 g/cm <sup>3</sup>
Solubility in water (20 °C)	soluble

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### 10. Stability and reactivity

Conditions to be avoided: Heating.

Substances to be avoided:

Exothermic reaction with: amines, potassium permanganate, salts of oxyhalogenic acids, semi metallic oxides, semi metallic hydrogen compounds, aldehydes, vinylmethyl ether.

Risk of ignition or formation of inflammable gases or vapours with: carbides, lithium silicide, fluorine.

formation of gas with: aluminium, hydrides, formaldehyde, metals (generation of hydrogen), strong alkalis, sulphides.

Risk of explosion with: alkali metals, conc. sulphuric acid.

Hazardous decomposition products

in the event of fire: See chapter 5.

Further information

unsuitable working materials: metal alloys, metals. Hydrogen may form upon contact with metals (danger of explosion!).

### 11. Toxicological information

Acute toxicity

LC<sub>50</sub> (inhalation, rat): 3124 ppm (V) /1 h (calculated on the pure substance) (RTECS).

Further toxicological information

Property that must be anticipated on the basis from the components of the preparation:

After inhalation: Irritations of the mucous membranes, coughing, and dyspnoea.

After skin contact: burns.

After eye contact: burns, Risk of blindness!

After swallowing: burns in mouth, throat, oesophagus and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

After a latency period: cardiovascular failure.

Further data

The product should be handled with the care usual when dealing with chemicals.

### 12. Ecological information

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Biological effects:

Toxic effect on fish and plankton. Forms corrosive mixtures with water even if diluted. Damage to plant growth.

Further ecologic data:

The following applies to HCl in general: Harmful effect on aquatic organisms. Harmful effect

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due to pH shift. Biological effects: hydrochloric acid (including such due to reaction): lethal for fish as from 25 mg/l; *Leuciscus idus* LC<sub>50</sub>: 862 mg/l (1N-solution). Harmful effects begin at: plants 6 mg/l. Does not cause biological oxygen deficit,  
Do not allow to enter waters, waste water, or soil!

### 13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations

Packaging:

Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

### 14. Transport information

Road & Rail      ADR, RID  
UN 1789 HYDROCHLORIC ACID, 8, II

Inland waterway ADN, ADNR not tested  
SealMDG-Code

UN 1789 HYDROCHLORIC ACID, 8, II  
EmsF-AS-B  
AirCAO, PAX  
UN 1789 HYDROCHLORIC ACID, 8, II

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

### 15. Regulatory information

Labelling according to EC Directives

Symbol:            C  
R-phrases:        34-37  
S-phrases:        26-36/37/39-45

Corrosive  
Causes burns. Irritating to respiratory system.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Reduced labelling (1999/45/EC, Art.10,4)

Symbol:            C  
R-phrases:        34

Corrosive  
Causes burns.

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### 16. Other information

Text of any R phrases referred to under heading 3:

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

The information contained herein is based on the present state of our knowledge and meet the national and EU legislation. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.