

WTW Safety Data Sheet
According to EC Directives 91/155/EEC

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

Product name:

Cleaning Solution

Ord.-No.: 821 165

Model: C/N 211/Fe

Manufacturer:

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany, Tel.: +49(0)881 183-0, Fax.: +49(0)881 183-420

Emergency telephone:
(001)-703-527-3887

2. Composition/information on ingredients

Chemical characterization: Ethanolic hydrochloric acid

Hazardous ingredients: Hydrochloric acid and Ethanol

Hydrochloric acid		Ethanol	
<i>Hazard symbols:</i>	Corrosive (C),	<i>Hazard symbol:</i>	Highly flammable ,F
<i>R-phrases:</i>	34-37	<i>R-phrases:</i>	11
<i>Content:</i>	26 %	<i>Content:</i>	30 %
<i>CAS-No.:</i>	7647-01-0	<i>CAS-No.:</i>	64-17-5
<i>EC-Index-No.:</i>	017-002-01-X	<i>EINECS-No.:</i>	2005786

3. Hazards identification

Causes burns. Irritating to respiratory system.

4. First aid measures

After inhalation: Fresh air

After skin contact: Wash off with plenty of water.
Change contaminated clothing.

After eye contact: Rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.

After ingestion: Drink plenty of water. Avoid vomiting. (risk of perforation)
Immediately summon doctor.

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5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	To suit environment.
<i>Unsuitable extinguishing media:</i>	No information available.
<i>Special risks:</i>	Development of hazardous vapours possible in the event of fire: Hydrogen chloride and ethanol. Use chemical protection clothing and selfcontained breathing apparatus in the dangerous zone.
<i>Other information:</i>	Non combustible Hydrogen may form upon contact with metals (danger of explosion).

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Do not inhale vapours. Avoid contact with eyes and skin.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system. Use only in well-ventilated areas.
<i>Procedures for cleaning/absorption:</i>	Take up with liquid-absorbent material. Forward for disposal. Clean up affected area with water.

7. Handling and storage

<i>Handling:</i>	No further requirements.
<i>Storage:</i>	Store tightly closed in a well-ventilated place. Keep away from sources of ignition and heat. Do not use metal containers.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK (Germany, max. workplace conc.) Hydrogen chloride: 5 ml/m ³ or 7 mg/m ³ , Peak limit =1=, Concentration must not exceed limit concentration. Ethanol: 500 ml/m ³ or 960 mg/m ³ , Peak limit 4 exceeding factor: 4-fold in 15 minutes.
<i>Pregnancy:</i>	Substances with which no foetotoxic risk is to be expected when observing the maximum allowable concentration (MAK Germany) and the biological tolerance value at the workplace (BAT Germany)
Personal protective equipment	
<i>Respiratory protection:</i>	Required when vapours are generated.
<i>Eye protection:</i>	Protective glasses.

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Hand protection: Gloves (nitrile rubber)

Industrial hygiene Wash hands and face after working with solution.
Immediately change contaminated clothing

9. Physical and chemical properties

Form: Liquid *Colour:* Colourless or yellowish *Odour:* Pungent

pH-value strong acid
Melting temperature: not available
Boiling temperature: not available
Ignition temperature: not available
Flash point: not available
Explosion limite lower: not available
upper: not available
Density: not available
Solubility in water: miscible
Thermal decomposition: /

10. Stability and reactivity

Conditions to be avoided: Strong heating

Substances to be avoided: Metals, alkaline reagents, oxidizing agents.
Hydrogen may form upon contact with metals (danger of explosion).

Hazardous decomposition products: Hydrochloric acid, ethanol.

Further information: None

11. Toxicological information

Acute toxicity: No information available.

Further toxicological information: Possible effect after contact with substance.
Corrosions and irritations of: eyes, skin and mucous membrane. Risk of perforation in the oesophagus and stomach.

12. Ecological information

Ecotoxic effects: Hydrogen chloride: Lethal for fish as from 25 mg/l.
Harmful effect due to pH shift.

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13. Disposal considerations

- Products:* There are no uniform regulations for the disposal of chemicals or residues. The disposal is regulated through corresponding regional laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.
- Packaging:* Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, noncontaminated packaging may be treated like household waste or recycled.

14. Transport information

- ADR/GGVSE:* UN 2924 Entzündbarer flüssiger Stoff, ätzend, n.a.g. (enthält Ethanol und Chlorwasserstoffsäure) 3, (8) II
- IMDG/GGVSee:* UN 2924 Flammable liquid, corrosive, n.o.s. (contains Ethanol and Hydrochloric acid) 3, (8) II EmS-No.: F-E, S-C
- ICAO/IATA:* UN 2924 Flammable liquid, corrosive, n.o.s. (contains Ethanol and Hydrochloric acid) 3, (8) II
- Further information:* None

15. Regulatory information

Labelling according to EC directives

- Symbol:* Corrosive (C)
- R-phrases:* 34-37 Causes burns. Irritating to respiratory system.
- S-phrases:* 1/2-26-45 Keep locked up and out of the reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

German regulations

- Water pollution class:* WGK: 1 Slightly polluting substance.
- Storage class VCI:* 8 A
- Regulation on combustible liquids:* VbF: Non-combustible.
- Other regulations:* None

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16. Other information

Data sheet of the Chemical Professional Association
M004 Irritant substances/corrosive substances
M051 Dangerous chemical substances

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