

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.: 821 163

Model: C/N 211

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: Acidic solution

Hazardous ingredients: Hydrochloric acid

Hazard symbols: Corrosive (C)

R-phrases: 34-37

Content: 0,4 %

CAS-No.: 7647-01-0

EC-Index-No: 017-002-01-X

3. Hazards identification

No hazardous product.

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.

After ingestion: Make injured person drink plenty of water. 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. Do not stay in dangerous zone without suitable chemical protection clothing and selfcontained breathing apparatus.
<i>Other information:</i>	Non-combustible.

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Do not inhale vapours.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system.
<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 at room temperature in a well-ventilated place.

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 . Class. pregnancy: C
Personal protective equipment	
<i>Respiratory protection:</i>	Required when vapours are generated.
<i>Eye protection:</i>	Protective glasses.
<i>Hand protection:</i>	Gloves (nitrile rubber)
<i>Industrial hygiene:</i>	Wash hands and face after working with solution. Immediately change contaminated clothing.

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9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Colourless	<i>Odour:</i> Pungent
<i>pH-value</i>	near 1 at 20°C	
<i>Melting temperature:</i>	°C	
<i>Boiling temperature:</i>	°C	
<i>Ignition temperature:</i>	°C	
<i>Flash point:</i>	°C	
<i>Explosion limite lower:</i>	/	
<i>upper:</i>	/	
<i>Density:</i>	/	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	/	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	Release of hydrogen chloride.
<i>Substances to be avoided:</i>	Metals: Formation of hydrogen. Risk of explosion.
<i>Hazardous decomposition products:</i>	Hydrochloric acid, chlorine.
<i>Further information:</i>	Unsuitable materials: metals and metal alloys.

11. Toxicological information

<i>Acute toxicity:</i>	No information available.
<i>Further toxicological information:</i>	Possible effect after contact with substance. Irritation of eyes, skin and mucous membrane.

12. Ecological information

<i>Ecotoxic effects:</i>	No ecological problems are to be expected when the product is handled and used with due to care and attention.
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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 1789 Chlorwasserstoffsäure, 8 III

IMDG/GGVSee: UN 1789 Hydrochloric acid, 8 III
EmS-No.: F-A, S-B

ICAO/IATA: UN 1789 Hydrochloric acid, 8 III

Further information: None

15. Regulatory information

Labelling according to EC directives

Symbol: No hazardous product

R-phrases: /

S-phrases: /

German regulations

Water pollution class; Nonpolluting substance.

Storage class VCI: 8 B

Regulation on combustible liquids; VbF: Non-combustible.

Other regulations: None

16. Other information

Date of issue: 15.07.2006

Supersedes edition of 18.02.2004

Reason for alteration: General update

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.