

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 N 201

Ord.-No.: 830 066

Model: RL-N 201

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: Acid aqueous solution

Hazardous ingredients: Hydrochloric acid

Hazard symbols: Corrosive (C),

R-phrases: 34-37

Content: 10,5 %

CAS-No.: 7647-01-0

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

3. Hazards identification

Irritating to eyes, respiratory system and skin.

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 (if necessary several litres).
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 chlorine Use chemical protection clothing and self-contained 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.
<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. 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 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>	< 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>	1,05 g/cm ³	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	/	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	Strong heating
<i>Substances to be avoided:</i>	Metals, carbides, strong alkaline reagents. Hydrogen may form upon contact with metals (danger of explosion).
<i>Hazardous decomposition products:</i>	Hydrochloric acid, chlorine.
<i>Further information:</i>	None

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. An embryotoxic effect need not be feared when the threshold limit value is observed.

12. Ecological information

<i>Ecotoxic effects:</i>	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 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: Irritant (Xi)
R-phrases: 36/37/38 Irritating to eyes, respiratory system and skin.
S-phrases: 26-36/37/39-45 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).

German regulations

Water pollution class; WGK: 1 Slightly polluting substance.
Storage class VCI: 8 B
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.