

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

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

Product name:

Pepsin Cleaning Solution

Ord. No.: 109 648

Model: PEP/pH

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.
Consult doctor if feeling unwell.

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5. Fire-fighting measures

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| <i>Suitable extinguishing media:</i> | To suit environment. |
| <i>Unsuitable extinguishing media:</i> | No information available. |
| <i>Special risks:</i> | Development of hazardous gases possible in the event of fire: Hydrogen chloride and chlorine Do not stay in dangerous zone without chemical protection clothing and selfcontained breathing apparatus. |
| <i>Other information:</i> | Non combustible |

6. Accidental release measures

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| <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

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| <i>Handling:</i> | No further requirements |
| <i>Storage:</i> | Store tightly closed at room temperature in a well-ventilated place. No metal container. |

8. Exposure control/personal protection

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| <i>Specific control parameters:</i> | MAK (Germany): 5 ml/m ³ or 7 mg/m ³ hydrogen chloride. Class. pregnancy: C |
| Personal protective equipment | |
| <i>Respiratory protection:</i> | Required when vapours/aerosols are generated. |
| <i>Eye protection:</i> | Protective glasses |
| <i>Hand protection:</i> | Gloves (nitrile rubber) |
| <i>Industrial hygiene:</i> | Change contaminated clothing. Wash hands and face after working with substance. |

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9. Physical and chemical properties

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| <i>Form:</i> Liquid | <i>Colour:</i> Colourless | <i>Odour:</i> Odourless |
| <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

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| <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. |

11. Toxicological information

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| <i>Acute toxicity:</i> | LD 50 (oral): 900 mg/kg for hydrogen chloride |
| <i>Further toxicological information:</i> | Possible effect after contact with substance: Irritation of: eyes, skin and mucous membrane. |

12. Ecological information

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| <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 22.01.2004

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.