

# Safety data sheet

## according to Regulation (EC) No 1907/2006 (REACH)

Printing date 07.03.2011

Version number 1

Revision: 24.02.2011

### 1 Identification of the substance/mixture and of the company/undertaking

**• Product identifier**

- Trade name: PEP/pH
- Article number: 109 648
- Description: Pepsin cleaning solution
- Application of the substance / the preparation: Cleaning of electrodes
- Manufacturer/Supplier:  
Wissenschaftlich-Technische Werkstätten GmbH  
Dr.-Karl-Slevogt-Straße 1  
82362 Weilheim  
Deutschland  
Tel. +49 881 183-0
- Further information obtainable from: E-mail: info@wtw.de
- Emergency telephone number: + 49 89 19240 (Giftnotruf München)

### 2 Hazards identification

**• Classification of the substance or mixture**

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
- Information concerning particular hazards for human and environment:  
Irritation of skin, eyes and mucosa can not be ruled out.  
The mixture is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.

**• Label elements**

- Labelling according to EU guidelines:
- Risk phrases: none
- Safety phrases: none
- Special labelling of certain preparations:  
Contains Pepsin A. May produce an allergic reaction.

### 3 Composition/information on ingredients

**• Chemical characterization: Mixtures**

- Description:  
Mixture of substances listed below with nonhazardous additions.  
Water, pepsin A, hydrochloric acid
- Dangerous components: Void
- Additional information: For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

**• Description of first aid measures**

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:  
Wash off with plenty of water.  
If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:  
Make victim drink water immediately (2 glasses at most).

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Call a doctor immediately.

- Information for doctor:
- Hazards May produce an allergic reaction.

### 5 Firefighting measures

- **Extinguishing media**
- Suitable extinguishing agents: The product is not flammable. Extinguishing agent to suit environment.
- **Advice for firefighters**
- Protective equipment: No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear personal protective equipment (see section 8).
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Wash off residuals with water.

### 7 Handling and storage

- **Handling:**
- Precautions for safe handling Prevent formation of aerosols.
- Information about fire - and explosion protection: No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: Do not use metal containers.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- Ingredients with limit values that require monitoring at the workplace:  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- **Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:  
Avoid contact with the eyes and skin.  
Change contaminated clothing.  
Wash hands before breaks and at the end of work.
- Respiratory protection:  
Only required when fog or aerosols are generated.  
Filter B/P2
- Protection of hands: Protective gloves
- Material of gloves Nitrile rubber, NBR
- Eye protection: Safety glasses

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### 9 Physical and chemical properties

|  |   |
|--|---|
| <b>• Information on basic physical and chemical properties</b> |   |
| • General Information  |   |
| • Appearance:  |   |
| Form:  | Fluid   |
| Colour:  | Colourless                                    |
| • Odour:   | Odourless                                     |
| • pH-value at 20°C:  | ca. 1,0                                       |
| • Change in condition  |   |
| Melting point/Melting range: Undetermined.                     |   |
| Boiling point/Boiling range: ca. 100°C                         |   |
| • Flash point:   | Not applicable.                               |
| • Danger of explosion:   | Product does not present an explosion hazard. |
| • Density:   | ca. 1 g/cm <sup>3</sup>                       |
| • Solubility in / Miscibility with water:                      | Fully miscible.                               |

### 10 Stability and reactivity

- **Reactivity**
- Chemical stability
- Thermal decomposition / conditions to be avoided: Do not heat above 50 °C.
- **Possibility of hazardous reactions** Formation of hydrogen possible with metals and alloys (risk of explosion).
- **Hazardous decomposition products:**
  - Chlorine
  - Hydrogen chloride (HCl)

### 11 Toxicological information

- **Information on toxicological effects**
- Acute toxicity:

|   |      |                    |
|---|------|--------------------|
| • LD/LC50 values relevant for classification: |      |                    |
| <b>7647-01-0 hydrogen chloride</b>            |      |                    |
| Oral  | LD50 | 900 mg/kg (Rabbit) |

- Primary irritant effect:
  - on the skin: Local irritation possible.
  - on the eye: Irritation possible.
- Sensitization: Contains Pepsin A. May produce allergic reaction.
- Additional toxicological information:
  - The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

### 12 Ecological information

- **Toxicity**
- Aquatic toxicity: No further relevant information available.
- **Additional ecological information:**
- General notes: Generally not hazardous for water

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### 13 Disposal considerations

- **Waste treatment methods**

- Recommendation

Disposal must comply with the relevant local 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.

- **Uncleaned packaging:**

- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- ADR/RID class: 8 Corrosive substances.
- UN-Number: 1789
- Packaging group: III
- Hazard label: 8
- UN proper shipping name: 1789 HYDROCHLORIC ACID

- **Maritime transport IMDG:**



- IMDG Class: 8
- UN Number: 1789
- Label: 8
- Packaging group: III
- EMS Number: F-A,S-B
- Marine pollutant: No
- Segregation groups: Acids
- Proper shipping name: HYDROCHLORIC ACID

- **Air transport ICAO-TI and IATA-DGR:**



- ICAO/IATA Class: 8
- UN/ID Number: 1789
- Label: 8
- Packaging group: III
- Proper shipping name: HYDROCHLORIC ACID

### 15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 16 Other information

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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