



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

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

*Product name:*

**pH 1.679 Standard Buffer**

**Ord. No.: 109 000**

**Model: PL 2**

*Manufacturer:*

WTW Wissenschaftlich-Technische Werkstätten GmbH, Dr.-Karl-Slevogt-Straße 1, D-82362 Weilheim, Germany, Tel.: (0881) 183-0, Fax.: (0881) 62539

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

**2. Composition/information on ingredients**

*Chemical characterization:* Aqueous saline solution

*Hazardous ingredients:* Potassium tetraoxalate dihydrate

*Hazard symbols:* Harmful (Xn)

*R-phrases:* 21/22

*Content:* 1,2 %

*CAS-No.:* 6100-20-5

*EINECS-No.:* 204-874-6

*EG-No.:* 204-874-6

**3. Hazards identification**

No hazardous product.

**4. First aid measures**

*After inhalation:* Fresh air

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

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

*After ingestion:* Make injured person drink plenty of water, induce vomiting, summon doctor.

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### 5. Fire-fighting measures

*Suitable extinguishing media:* To suit environment.  
*Unsuitable extinguishing media:* No information available.  
*Special risks:* None  
*Other information:* Non combustible

### 6. Accidental release measures

*Personal-related precautionary measures:* None  
*Environmental-protection measures:* None  
*Procedures for cleaning/absorption:* Clean up affected area with water.

### 7. Handling and storage

*Handling:* No further requirements  
*Storage:* Store tightly closed

### 8. Exposure control/personal protection

*Specific control parameters:* None  
Personal protective equipment  
*Respiratory protection:* Required when dusts are generated.  
*Eye protection:* Protective glasses  
*Hand protection:* Gloves  
*Industrial hygiene:* Wash hands after working with solution.  
Change contaminated clothing.

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### 9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Colourless	<i>Odour:</i> Odourless
<i>pH-value</i>	1,679 at 25°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>	> 128°C (release of crystalline water)	

### 10. Stability and reactivity

<i>Conditions to be avoided:</i>	No information available
<i>Substances to be avoided:</i>	No information available
<i>Hazardous decomposition products:</i>	No information available
<i>Further information:</i>	No information available

### 11. Toxicological information

<i>Acute toxicity:</i>	Quantitative data are not available.
<i>Further toxicological information:</i>	The following applies to oxalates in general: nausea and vomiting after ingestion. Coughing and dyspnoea after inhalation. Systemic effect: drop in the blood calcium level, toxic effect on kidneys, cardiovascular disorders.

### 12. Ecological information

<i>Ecotoxic effects:</i>	Do not allow to enter drinking water supplies, waste water or soil.
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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

Not subject to transport regulations.

#### 15. Regulatory information

Labelling according to EC directives

*Symbol:* No hazardous product  
*R-phrases:* /  
*S-phrases:* /

German regulations

*Water pollution class;* nonpolluting substance

*Regulation on combustible liquids;* VbF: Non combustible

*Other regulations:* None

#### 16. Other information

Date of issue: 22.1.2004  
Supersedes edition of 4.12.2002  
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.