

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

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

Product name:

Technical Buffer pH 10.01

Ord. No.: 108 703

Model: TEP 10 Trace

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: Sodium carbonate

Hazard symbols: Irritant (Xi)

R-phrases: 36

Content: 0.26 %

CAS-No.: 497-19-8

EG-No.: 207-838-8

EINECS-No.: 207-838-8

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.

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

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5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	To suit environment.
<i>Unsuitable extinguishing media:</i>	Not known to date
<i>Special risks:</i>	Ambient fire may liberate hazardous vapours. Do not stay in dangerous zone without chemical protection clothing and selfcontained breathing apparatus.
<i>Other information:</i>	Non-combustible

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	No further requirement
<i>Environmental-protection measures:</i>	No further requirement
<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 requirement
<i>Storage:</i>	Store closed at room temperature.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK Germany (max.workplace conc.) for the pure sodium carbonate: 4 mg/m ³ inhalable dust (general dust limit)
Personal protective equipment	
<i>Respiratory protection:</i>	Only required when vapours and aerosols are generated.
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Not required
<i>Industrial hygiene:</i>	Wash hands and face after working with solution. Change contaminated clothing.

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9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Yellow	<i>Odour:</i> Odourless
<i>pH-value</i>	10.01 at 25°C	
<i>Melting temperature:</i>	near 0°C	
<i>Boiling temperature:</i>	near 100°C	
<i>Ignition temperature:</i>	not applicable	
<i>Flash point:</i>	not applicable	
<i>Explosion limite lower:</i>	not applicable	
<i>upper:</i>	not applicable	
<i>Density:</i>	near 1 g/cm ³	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	not applicable	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	No information available
<i>Substances to be avoided:</i>	Acids generate carbondioxide.
<i>Hazardous decomposition products:</i>	None
<i>Further information:</i>	No information available

11. Toxicological information

<i>Acute toxicity:</i>	No information available.
<i>Further toxicological information:</i>	No toxic effects are to be expected when the product is handled appropriately

12. Ecological information

<i>Ecotoxic effects:</i>	No ecological problems are to be expected when the product is handled and used with due 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

GGVS/GGVE:

ADR/RID:

Name of material: Technical Buffer pH 10.01

IMDG:

ICAO/IATA:

Correct technical name: Solution of sodium carbonate (0,26 %)

UN-No.:

Further 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 solution

Regulation on combustible liquids; VbF: not applicable

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.