



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

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

*Product name:*

**Outer chamber filling solution for nitrate determination**

**Ord. No.:** 106 576

**Model:** ELY/BR/503/N

*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:* Ammonium sulfate

*Hazard symbols:* No hazardous product

*R-phrases:* /

*Content:* < 4 %

*CAS-No.* 7783-20-2

*EC-No.:* 231-984-1

**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.

## WTW Safety Data Sheet

### Identification of the substance/preparation

#### Outer chamber filling solution for nitrate determination

---

#### 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. The following may develop in the event of fire: NH <sub>3</sub> , HCl, chlorine. Use chemical protection clothing and selfcontained breathing apparatus in the dangerous zone.
<i>Other information:</i>	Non combustible

#### 6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Avoid generation of dusts.
<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 effected area with water.

#### 7. Handling and storage

<i>Handling:</i>	No further requirements
<i>Storage:</i>	Tightly closed.

#### 8. Exposure control/personal protection

<i>Specific control parameters:</i>	None
Personal protective equipment	
<i>Respiratory protection:</i>	Only required when dusts are generated.
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Gloves
<i>Industrial hygiene:</i>	Wash hands after working with solution.

# WTW Safety Data Sheet

## Identification of the substance/preparation

### Outer chamber filling solution for nitrate determination

---

#### 9. Physical and chemical properties

<i>Form:</i> liquid	<i>Colour:</i> colourless	<i>Odour:</i> odourless
<i>pH-value</i>	near 5-6 at 20°C	
<i>Melting temperature:</i>	about 0°	
<i>Boiling temperature:</i>	about 100°C	
<i>Ignition temperature:</i>	°C	
<i>Flash point:</i>	°C	
<i>Explosion limite lower:</i>	/	
<i>                          upper:</i>	/	
<i>Density:</i>	1.02 g/cm <sup>3</sup>	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	/	

#### 10. Stability and reactivity

<i>Conditions to be avoided:</i>	Do not alkalize the filling solution.
<i>Substances to be avoided:</i>	Alkali hydroxides, chlorates, nitrites
<i>Hazardous decomposition products:</i>	Ammonia
<i>Further information:</i>	None

#### 11. Toxicological information

<i>Acute toxicity:</i>	LD50 (oral, rat): 2840 mg/kg (Ammonium sulfate)
<i>Further toxicological information:</i>	After ingestion of large amounts: headache, nausea, unconsciousness. The product should be handled with the care usual when dealing with chemicals.

#### 12. Ecological information

<i>Ecotoxic effects:</i>	Ammonium ions cause biological effects: fish: toxic as from 0,3 mg/l. No ecological problems are to be expected when the product is handled and used with due care and attention.
--------------------------	--

# WTW Safety Data Sheet

## Identification of the substance/preparation

### Outer chamber filling solution for nitrate determination

---

#### 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;* WGK: 1 Slightly polluting substance

*Regulation on combustible liquids;* VbF: Non combustible

*Other regulations:* None

#### 16. Other information

Date of issue: 22.1.2004  
Supersedes edition of 20.11.2001  
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.