

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

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

*Product name:*

**Solution for Sample Preparation for Nitrate Determination**

**Ord. No.:** 150 120  
**Model:** TISAB/NO<sub>3</sub>

*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:* Aqueous saline solution

*Hazardous ingredients:* Amidosulfonic acid and silver sulfate

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Amidosulfonic acid                   | silver sulfate                       |
| <i>Hazard symbols:</i> Irritant (Xi) | <i>Hazard symbols:</i> Irritant (Xi) |
| <i>R-phrases:</i> 36/38              | <i>R-phrases:</i> 41                 |
| <i>Content:</i> 0,30 %               | <i>Content:</i> 0,35 %               |
| <i>CAS-No.:</i> 5329-14-6            | <i>CAS-No.:</i> 10294-26-5           |
| <i>EINECS-No.:</i> 226-218-8         | <i>EINECS-No.:</i> 233-653-7         |

**3. Hazards identification**

Irritating to eyes and skin.

**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, immediately summon doctor.

# WTW Safety Data Sheet

## Identification of the substance/preparation

### Solution for Sample Preparation 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: SO <sub>x</sub> , NH <sub>3</sub> , nitrogen oxides. |
| <i>Other information:</i>              | Non-combustible.                                                                                                     |

#### 6. Accidental release measures

|                                                 |                                                                                                        |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <i>Personal-related precautionary measures:</i> | Avoid contact with solution.                                                                           |
| <i>Environmental-protection measures:</i>       | Do not allow to enter sewerage system.                                                                 |
| <i>Procedures for cleaning/absorption:</i>      | Take up with liquid-absorbent material.<br>Forward for disposal.<br>Clean up effected area with water. |

#### 7. Handling and storage

|                  |                                       |
|------------------|---------------------------------------|
| <i>Handling:</i> | No further requirements.              |
| <i>Storage:</i>  | Tightly closed. Protected from light. |

#### 8. Exposure control/personal protection

|                                     |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| <i>Specific control parameters:</i> | MAK-value (Germany): 0,01 mg/ mg/m <sup>3</sup> for silver sulfate |
| Personal protective equipment       |                                                                    |
| <i>Respiratory protection:</i>      | Required when aerosols are generated.                              |
| <i>Eye protection:</i>              | Protective glasses                                                 |
| <i>Hand protection:</i>             | Gloves (nitrile rubber)                                            |
| <i>Industrial hygiene:</i>          | Wash hands after working with solution.                            |

# WTW Safety Data Sheet

## Identification of the substance/preparation

### Solution for Sample Preparation for Nitrate Determination

---

## 9. Physical and chemical properties

|                                               |                           |                         |
|-----------------------------------------------|---------------------------|-------------------------|
| <i>Form:</i> Liquid                           | <i>Colour:</i> Colourless | <i>Odour:</i> Odourless |
| <i>pH-value</i>                               | about 3 at 20°C           |                         |
| <i>Melting temperature:</i>                   | °C                        |                         |
| <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>                               | /                         |                         |
| <i>Solubility in water:</i>                   | miscible                  |                         |
| <i>Thermal decomposition:</i>                 | /                         |                         |

## 10. Stability and reactivity

|                                          |                                            |
|------------------------------------------|--------------------------------------------|
| <i>Conditions to be avoided:</i>         | Not known.                                 |
| <i>Substances to be avoided:</i>         | Halogens, bases, oxidizing agents, metals. |
| <i>Hazardous decomposition products:</i> | Sulfur dioxide, ammonia, nitrogen oxides   |
| <i>Further information:</i>              | Light-sensitive                            |

## 11. Toxicological information

|                                           |                                                                                                                                                                                                                                                       |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Acute toxicity:</i>                    | LD50 (oral): 3160 mg/kg for amidosulfonic acid<br>LD50 (oral):~5000 mg/kg for silver sulfate                                                                                                                                                          |
| <i>Further toxicological information:</i> | After ingestion: irritations of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract.<br>Further hazardous properties cannot be excluded.<br>The product should be handled with the care usual when dealing with chemicals. |

## 12. Ecological information

|                          |                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Ecotoxic effects:</i> | Quatitative data on the ecological effect of this product are not available.<br>Toxic for aquatic organisms.<br>Do not allow to enter drinking water supplies, waste water, or soil. |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# WTW Safety Data Sheet

## Identification of the substance/preparation

### Solution for Sample Preparation 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: 2 Polluting 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 12.02.2004

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.