

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/NO₃

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: 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.

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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 _x , NH ₃ , 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. Forward for disposal. 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 ³ 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
<i>Industrial hygiene:</i>	Wash hands after working with solution.

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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>	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 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. Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

12. Ecological information

<i>Ecotoxic effects:</i>	Quantitative data on the ecological effect of this product are not available. Toxic for aquatic organisms. 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; WGK: 2 Polluting substance

Regulation on combustible liquids; VbF: Non-combustible.

Other regulations: None

16. Other information

Date of issue: 12.2.2004
Supersedes edition of 22.3.2001
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.