

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
Silver Determination in Fixing Solution

Ord. No.: 140 140
Model: ISA/Ag/FL

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

<i>Ingredients:</i>	Sodium sulfite
<i>Hazard symbols:</i>	No hazardous product
<i>R-phrases:</i>	/
<i>Content:</i>	5 %
<i>CAS-No.:</i>	7757-83-7
<i>EINECS-No.:</i>	231-821-4

3. Hazards identification

No hazardous product.

4. First aid measures

<i>After inhalation:</i>	Fresh air
<i>After skin contact:</i>	Wash off with plenty of water. Remove contaminated clothing.
<i>After eye contact:</i>	Rinse out with plenty of water with the eyelid held wide open.
<i>After ingestion:</i>	Make victim drink plenty of water. Induce vomiting. Immediately consult 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 gases and vapours is possible in the event of fire: Sulphurdioxide Use chemical protection clothing and self-contained breathing apparatus in dangerous zone.
<i>Other information:</i>	Non combustible.

6. Accidental release measures

<i>Personal-related precautionary measures:</i>	None
<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 affected 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>	Not required
<i>Eye protection:</i>	Protective glasses
<i>Hand protection:</i>	Gloves (nitrile rubber)
<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> Colourless	<i>Odour:</i> Weakly of hydrogen sulfide
<i>pH-value</i>	6,25 at 20°C	
<i>Melting temperature:</i>	°C	
<i>Boiling temperature:</i>	°C	
<i>Ignition temperature:</i>	°C	
<i>Flash point:</i>	°C Non combustible	
<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>	Do not acidify the solution.
<i>Substances to be avoided:</i>	Reagents for oxidation and acids
<i>Hazardous decomposition products:</i>	Sulfur dioxide
<i>Further information:</i>	Solution reacts with atmospheric oxygen.

11. Toxicological information

<i>Acute toxicity:</i> For sodium sulfite:	LD 50 (oral): 2610 mg/kg for sodium sulfite
<i>Further toxicological information:</i>	After contact with substance: Slight irritations of eyes, skin and mucous membranes.

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

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC directives

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

German regulations

<i>Water pollution class;</i>	WGK: 1	Slightly polluting substance
<i>Storage class VCI:</i>	12	
<i>Regulation on combustible liquids;</i>	VbF: /	
<i>Other regulations:</i>	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.