

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

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

Product name:

Platinizing Solution for Conductivity Cells

Ord. No.: 300 570

Model: EP/SET

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:

Hexachloroplatinic-(IV)acid hexahydrate
Hazard symbols: Corrosive (C)
R-phrases: 25-34-42/43
Content: < 0,7 %
CAS-No.: 18497-13-7
EINECS-No.: 241-010-7
EG-No.: 241-010-7

Lead-(II)-acetate-Trihydrate
Hazard-Symbols: giftig (T), umweltschädl. (N)
R-phrases: 61-33-40-48/22-50/53-62
Content: <0,04%
CAS-No.: 6080-56-4
EINECS-No.: 206-104-4
EG-No.: 206-104-4

3. Hazards identification

May cause sensitization by inhalation and skin contact.

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. Immediately summon eye specialist.

After ingestion: Make injured person drink plenty of water.
Immediately summon doctor.
Avoid vomiting, risk of perforation.

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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>	Generation of hydrogenchloride and chlorine at 110°C. 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>	Wear suitable clothing and gloves. Avoid contact with skin.
<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 Protected from light.

8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK-Value: 0,002 mg/m ³ platinum (German regulation)
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 and face after working with solution.

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9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Orange	<i>Odour:</i> Odourless
<i>pH-value</i>	1,6 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>	about 110°C	

10. Stability and reactivity

<i>Conditions to be avoided:</i>	No information available.
<i>Substances to be avoided:</i>	Metals
<i>Hazardous decomposition products:</i>	Hydrogenchloride and chlorine
<i>Further information:</i>	Light-sensitive

11. Toxicological information

<i>Acute toxicity:</i>	No information available
<i>Further toxicological information:</i>	Platinum compounds are generally highly toxic even though the rate of absorption via the gastrointestinal tract is relatively poor. Symptoms of platinum intoxication are hepatic and renal damages, impaired hearing and severe sensitisation with allergic manifestations. Further hazardous properties cannot be excluded.

12. Ecological information

<i>Ecotoxic effects:</i>	Toxic for aquatic organisms. Harmful effect due to pH shift.
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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

<i>Symbol:</i>	No hazardous product
<i>R-phrases:</i> 42/43	May cause sensitization by inhalation and skin contact.
<i>S-phrases:</i> /	

German regulations

<i>Water pollution class;</i>	WGK: 1	Slightly polluting substance
<i>Storage class VCI:</i>	6.1 B	
<i>Regulation on combustible liquids;</i>	VbF: Non combustible	
<i>Other regulations:</i>	None	

16. Other information

Date of issue:	15.07.2006
Supersedes edition of	18.02.2004
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.