

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

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

*Product name:*

**Lead Standard Solution 10 g/l Pb<sup>2+</sup>**

**Ord. No.: 120 100**

**Model: ES/Pb**

*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:* Lead(II)nitrate

*Hazard symbols:* Toxic (T) and dangerous for the environment (N)

*R-phrases:* 61-E 20/22-33-50/53-62

*Content:* 1,6 %

*CAS-No.:* 10099-74-8

*EINECS-No.:* 233-245-9

*EG-No.:* 233-245-9

**3. Hazards identification**

Toxic by inhalation and if swallowed. Danger of cumulative effects. May cause harm to the unborn child. Possible risk of impaired fertility. Dangerous for the environment.

**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. 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 gases possible in the event of fire. The following may develop in the event of fire: nitrogen oxides.
<i>Other information:</i>	Use chemical protection clothing and selfcontained breathing apparatus.

### 6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Avoid generation of dusts. Do not inhale dusts. Avoid substance contact.
<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. Away from combustible substances. Keep away from sources of ignition and heat. Accessible only for authorized persons.

### 8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK-value: 0,1 mg/m <sup>3</sup> lead (dust); Germany Class. pregnancy: B
Personal protective equipment	
<i>Respiratory protection:</i>	Only required when dusts 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. Change contaminated clothing.

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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>	3,1 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>	nitrogen oxides	

### 10. Stability and reactivity

<i>Conditions to be avoided:</i>	No information available
<i>Substances to be avoided:</i>	Organic combustible substances and oxidizable substances
<i>Hazardous decomposition products:</i>	Nitrogen oxides
<i>Further information:</i>	None

### 11. Toxicological information

<i>Acute toxicity:</i>	No information available.
<i>Further toxicological information:</i>	Due to the poor absorbability via the gastrointestinal tract, only high doses lead to acute cases of intoxication. After a latency period of several hours metallic taste, nausea, vomiting and colic occur, in many instances followed by shock. Chronic uptake causes peripheral muscular weakness, anaemia and centraervous disorders. Embryotoxic potential must be considered probable.

### 12. Ecological information

<i>Ecotoxic effects:</i>	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

*ADR/GGVSE:* UN 3287 Giftiger, anorganischer, flüssiger Stoff N.A.G. 6.1 III (Bleinitratlösung)

*IMDG/GGVSee:* UN 3287 Toxic liquid, inorganic, n.o.s. 6.1 III (Solution of Lead nitrate) EmS-No.: F-A, S-A

*ICAO/IATA:* UN 3287 Toxic liquid, inorganic, n.o.s., 6.1 III (Solution of Lead nitrate)

*Further information:* None

### 15. Regulatory information

Labelling according to EC directives

*Symbol:* Toxic (T) and dangerous for the environment (N)  
*R-phrases:* 61-20/22-33-52/53  
May cause harm to the unborn child.  
Also harmful by inhalation and if swallowed.  
Danger of cumulative effects.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*S-phrases:* 45-53-60-61  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
Avoid exposure-obtain special instructions before use.  
This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.

German regulations

*Water pollution class;* WGK: 2 Polluting substance  
*Storage class VCI:* 5.1 B  
*Regulation on combustible liquids;* VbF: Non combustible  
*Other regulations:* None

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### 16. Other information

Professional Assoziation: MO39 Teratogenic effects-protection of working place (Germany)  
MO50 Dealing with harmful substances (Germany)

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Reason for alteration: Change in transport classification

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.