

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

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

*Product name:*

**Cleaning Solution for Galvanic Oxygen Probes**

**Ord. No.:** 205 204

**Model:** RL-G

*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 solution

*Hazardous ingredients:* Acetic acid

*Hazard symbols:* Corrosive (C)

*R-phrases:* 10-35

*Content:* 23 %

*CAS-No.:* 64-19-7

*EINECS-No.:* 200-580-7

*EG-No.:* 200-580-7

**3. Hazards identification**

Irritating to eyes, skin and respiratory system.  
Explosible with air in a vaporous/gaseous state.

**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, avoid vomiting (risk of perforation). Immediately summon doctor. Do not attempt to neutralize.

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#### 5. Fire-fighting measures

<i>Suitable extinguishing media:</i>	Water, carbondioxide,foam and powder
<i>Unsuitable extinguishing media:</i>	No information available.
<i>Special risks:</i>	Development of hazardous vapours possible in the event of fire.
<i>Other information:</i>	Take measures to prevent electrostatic charging. Do not stay in dangerous zone without suitable chemical protection clothing and selfcontained breathing apparatus.

#### 6. Accidental release measures

<i>Personal-related precautionary measures:</i>	Wear suitable clothing and gloves. Avoid contact with skin. Do not inhale vapours.
<i>Environmental-protection measures:</i>	Do not allow to enter sewerage system.
<i>Procedures for cleaning/absorption:</i>	Neutralize with diluted sodium hydroxide solution. Take up with liquid-absorbent material. Forward for disposal. Clean up affected area with water.

#### 7. Handling and storage

<i>Handling:</i>	Only with eye protection
<i>Storage:</i>	Tightly closed at room temperature

#### 8. Exposure control/personal protection

<i>Specific control parameters:</i>	MAK-Value: 10 ppm or 25 mg/m <sup>3</sup> acetic acid (German regulation)
Personal protective equipment	
<i>Respiratory protection:</i>	Required when vapours are generated; filter E2
<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. Use protective clothing.

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#### 9. Physical and chemical properties

<i>Form:</i> Liquid	<i>Colour:</i> Colourless	<i>Odour:</i> Pungent
<i>pH-value</i>	about 2 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>	4 Vol % for acetic acid	
<i>upper:</i>	17 Vol % for acetic acid	
<i>Density:</i>	/	
<i>Solubility in water:</i>	miscible	
<i>Thermal decomposition:</i>	/	

#### 10. Stability and reactivity

<i>Conditions to be avoided:</i>	Strong heating
<i>Substances to be avoided:</i>	Strong alkali and hydroxides, peroxycoumpounds
<i>Hazardous decomposition products:</i>	Acetic acid vapours in the event of fire
<i>Further information:</i>	Hydrogen may form upon contact with various metals (danger of explosion).

#### 11. Toxicological information

<i>Acute toxicity:</i>	LD 50 (oral, rat): 3310 mg/kg for acetic acid.
<i>Further toxicological information:</i>	After eye contact: Risk of corneal clouding, burns of mucous membranes. After ingestion: Burn in oesophagus and stomach, gastritic spasms, bloody vomiting, dypnoea. Risk of perforation in the oesophagus and stomach. Cannot be excluded: Shock, cardiovascular failure, damage of kidneys.

#### 12. Ecological information

<i>Ecotoxic effects:</i>	Toxic for aquatic organims. Harmful effect due to pH shift. Degradable in water.
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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 2790 Essigsäure, 8 III
- IMDG/GGVSee:* UN 2790 Acetic acid solution, 8 III  
EmS-No.: F-A, S-B
- ICAO/IATA:* UN 2790 Acetic acid solution, 8 II
- Further information:* None

#### 15. Regulatory information

Labelling according to EC directives

- Symbol:* Irritant (Xi)  
*R-phrases:* 36/38 Irritating to eyes and skin.  
*S-phrases:* 23-26-45 Do not breathe vapour. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately, show the label where possible.

German regulations

- Water pollution class;* WGK: 1 Slightly polluting substance  
*Storage class VCI:* 8 B  
*Regulation on combustible liquids;* VbF: I  
*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.