

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.03.2020

Version number 2

Revision: 30.03.2020

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
  - Trade name: **Leitfähigkeits-Kalibrierlösung 500 mS/cm**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
  - **Product category:** PC21 Laboratory chemicals
  - **Process category:** PROC15 Use as laboratory reagent
  - **Application of the substance / the preparation:** Water analysis
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
Xylem Analytics Germany GmbH  
Sensortechnik Meinsberg  
Meinsberg, Kurt-Schwabe-Straße 6  
D-04736 Waldheim  
Germany  
Tel. +49 34327 623-0
  - **Further information obtainable from:** Email: info@meinsberg.de
- **1.4 Emergency telephone number:** Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008:**



GHS05 corrosion

Met. Corr.1 H290 May be corrosive to metals.

- **2.2 Label elements:**
  - **Labelling according to Regulation (EC) No 1272/2008:**  
The product is classified and labelled according to the CLP regulation.
    - **Hazard pictograms:** GHS05
    - **Signal word:** Warning
    - **Hazard statements:**  
H290 May be corrosive to metals.
    - **Precautionary statements:**  
P234 Keep only in original packaging.
- **2.3 Other hazards** No further relevant information available.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixture**
  - **Description:**  
Mixture of substances listed below with nonhazardous additions.

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Water, pepsin A, hydrochloric acid

**Dangerous components:**

CAS: 7647-01-0 EINECS: 231-595-7 Index number: 017-002-00-2	hydrogen chloride ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	5 – < 10%
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**Additional information:** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with plenty of water.  
Take off immediately all contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Make victim drink water immediately (2 glasses at most).  
Do not induce vomiting (risk of perforation)  
Call a doctor immediately.  
Do not attempt to neutralize.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

- **Suitable extinguishing agents:** The product is not flammable. Extinguishing agent to suit environment.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**  
· **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protective equipment (see section 8).

**6.2 Environmental precautions:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Wash off residuals with water.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling** Wear personal protective equipment (see section 8)

- **Information about fire - and explosion protection:** No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Store tightly sealed at temperatures between 15 °C and 25 °C.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

#### 7647-01-0 hydrogen chloride

IOELV	Short-term value: 15 mg/m <sup>3</sup> , 10 ppm
	Long-term value: 8 mg/m <sup>3</sup> , 5 ppm

- **Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - Avoid contact with the eyes and skin.
    - Do not inhale gases / fumes / aerosols.
    - Take off contaminated clothing and wash it before reuse.
    - Wash hands before breaks and at the end of work.
  - **Respiratory protection:** Use suitable respiratory protective device only when aerosol or mist is formed.
    - **Recommended filter device for short term use:** Combination filter B-P2
  - **Protection of hands:** Protective gloves
    - **Material of gloves:** Nitrile rubber, NBR
  - **Eye protection:** Safety glasses
- **Limitation and supervision of exposure into the environment**
  - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

- **Appearance:**
  - **Form:** Fluid
  - **Colour:** Colourless
  - **Odour:** Odourless

· **pH-value at 20 °C:** < 1

#### Change in condition

- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** 100 °C

· **Flash point:** Not applicable.

· **Explosive properties:** Product does not present an explosion hazard.

· **Vapour pressure at 20 °C:** 23 hPa

· **Density at 20 °C:** 1.01 g/cm<sup>3</sup>

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· <b>Solubility in / Miscibility with</b>	
· <b>water:</b>	Fully miscible.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** Do not heat above 50 °C.
- **10.3 Possibility of hazardous reactions** Formation of hydrogen possible with metals and alloys (risk of explosion).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
  - Chlorine
  - Hydrogen chloride (HCl)

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
  - **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values relevant for classification:</b>		
<b>7647-01-0 hydrogen chloride</b>		
Oral	LD50	900 mg/kg (Rabbit)

- **Primary irritant effect:**
  - **Skin corrosion/irritation** Local irritation possible.
  - **Serious eye damage/irritation** Irritation possible.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment** Not applicable.
- **12.6 Other adverse effects**
  - **General notes:**
    - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Disposal must comply with the relevant local 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.

#### Uncleaned packaging:


##### Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· 14.1 UN-Number</li> <li>· ADR/RID, IMDG, IATA</li> </ul>	UN1789	
<ul style="list-style-type: none"> <li>· 14.2 UN proper shipping name</li> <li>· ADR/RID</li> <li>· IMDG, IATA</li> </ul>	HYDROCHLORIC ACID solution CHLORWASSERSTOFFSÄURE HYDROCHLORIC ACID solution	
<ul style="list-style-type: none"> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR/RID, IMDG, IATA</li> </ul>	<div style="text-align: center;">  <p>8</p> </div> <ul style="list-style-type: none"> <li>· Class</li> <li>· Label</li> </ul>	8 Corrosive substances. 8
<ul style="list-style-type: none"> <li>· 14.4 Packing group</li> <li>· ADR/RID, IMDG, IATA</li> </ul>	II	
<ul style="list-style-type: none"> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> </ul>	No	
<ul style="list-style-type: none"> <li>· 14.6 Special precautions for user</li> <li>· Hazard identification number (Kemler code):</li> <li>· EMS Number:</li> <li>· Segregation groups</li> <li>· Stowage Category</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B Acids E	
<ul style="list-style-type: none"> <li>· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.	
<ul style="list-style-type: none"> <li>· ADR/RID</li> <li>· Limited quantities (LQ)</li> <li>· Transport category</li> <li>· Tunnel restriction code</li> </ul>	1L 2 E	
<ul style="list-style-type: none"> <li>· UN "Model Regulation":</li> </ul>	UN 1789 HYDROCHLORIC ACID SOLUTION, 8, II	

EU

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## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Directive 2012/18/EU**
    - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

- **Relevant phrases**
  - H302 Harmful if swallowed.
  - H314 Causes severe skin burns and eye damage.
  - H335 May cause respiratory irritation.
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Met. Corr.1: Corrosive to metals – Category 1
  - Acute Tox. 4: Acute toxicity - oral – Category 4
  - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3