## LENNTECH

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## Safety data sheet according to 1907/2006/EC Version number 9

Revision: 13.11.2015

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

### · 1.1 Product identifier

### · Trade name: Testomat 2000 Indikator TP 2100

• **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· Application of the substance / the preparation: Reagent for analysis

#### · 1.3 Details of the supplier of the safety data sheet

 Manufacturer/Supplier: Gebrüder Heyl Analysentechnik GmbH & Co. KG Orleansstraße 75 b D-31135 Hildesheim

Phone +49 (0) 5121 2893390 Fax +49 (0) 5121 2893367 E-Mail info@heyl.de Internet www.heyl.de

• Further information obtainable from: product safety department

• **1.4 Emergency telephone number:** Giftinformationszentrum Nord Phone +49 (0) 551 19240

## **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
 The product is not close find according to (b) O

The product is not classified according to the CLP regulation.

#### · 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:
- Safety data sheet available on request.
- · Labelling of packages where the contents do not exceed 125 ml
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

· Description:

Mixture of substances listed below with nonhazardous additions according to Regulation (EC) No 1272/2008.

· Dangerous components:		
	hydrogen chloride	<i>0,1-<u>≤</u>2,5%</i>
EINECS: 231-595-7	♦ Skin Corr. 1B, H314; ♦ STOT SE 3, H335	
Index number: 017-002-00-2	•	
Reg.nr.: 01-2119484862-27		
· SVHC Not applicable.		

• Additional information: For the wording of the listed risk phrases refer to section 16.

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#### SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing:

A person vomiting while laying on their back should be turned onto their side. Rinse out mouth and then drink plenty of water. Seek medical treatment.

- **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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Hydrogen chloride (HCI)
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

### **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Wear personal protection equipment.

· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations. Clean the affected area carefully; suitable cleaners are: Warm 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 No special measures required.

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

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

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Protect from heat and direct sunlight.

Store receptacle in a well ventilated area. • Recommended storage temperature: 15 - 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:

#### CAS: 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:
- The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

· Respiratory protection: Not required.

· Protection of hands:

Wear gloves according to EN 374.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check protective gloves prior to each use for their proper condition.

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0,4 mm Value for the permeation: Level = 6 (> 480 min)

• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR

Recommended thickness of the material:  $\geq$  0,12 mm

Value for the permeation: Level = 4 (> 120 min)

• Eye protection: Goggles according to EN 166 recommended during refilling

· Body protection: Protective work clothing

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SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties			
General Information	sical and chemical properties		
Appearance:			
Form:	Fluid		
Colour:	Colourless		
Odour:	Odourless		
pH-value (113 g/l) at 20 °C:	2,3		
Change in condition Melting point/Melting range Boiling point/Boiling range			
Flash point:	Not applicable.		
Self-igniting:	Product is not selfigniting.		
Danger of explosion:	Product does not present an explosion hazard.		
Density at 20 °C:	1,13 g/cm³		
Solubility in / Miscibility with water:	Fully miscible.		
9.2 Other information	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:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions Reacts with metals forming hydrogen.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: 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.

· LD/LC50 values relevant for classification:

#### CAS: 7647-01-0 hydrogen chloride

Oral LD50 900 mg/kg (rabbit)

- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, 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.

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**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.
- · Additional ecological information:
- · General notes:

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.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation Disposal must be made according to official regulations.

· Uncleaned packaging:

Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

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

14.1 UN-Number ADR, IMDG, IATA	UN1789
14.2 UN proper shipping name ADR	1789 HYDROCHLORIC ACID mixture
IMDG	HYDROCHLORIC ACID mixture
ΙΑΤΑ	Hydrochloric acid mixture
14.3 Transport hazard class(es)	
Class Label	8 Corrosive substances. 8
14.4 Packing group	-
ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80 Ŭ
	F-A,S-B
EMS Number:	Г-А, <b>З-</b> В

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· Stowage Category	E
<ul> <li>14.7 Transport in bulk according to Anne of Marpol and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Transport category</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3
Tunnel restriction code     IMDG	E
<ul> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID MIXTURE, 8, III

**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 hydrogen chloride
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.

- · Department issuing MSDS: product safety department.
- · Contact:
- · 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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

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STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 · \* **Data compared to the previous version altered.** 

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