

### Safety data sheet according to 1907/2006/EC

Printing date 27.08.2021

Version number 3 (replaces version 2)

Revision: 27.08.2021

#### SECTION 1: Identification of the substance/mixture and of the company. undertaking · 1.1 Product identifier • Trade name: Testomat Calcium Reinigungslösung · UFI: RUW3-GF9D-Y008-A1XG · 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 EuPCS: PC-TEC-19 Reagents and laboratory chemical · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Gebrüder Heyl Phone +49 (0) 5121 2893390 Analysentechnik GmbH & Co. KG Fax +49 (0) 5121 2893367 Orleansstraße 75 b E-mail info@heylanalysis.de D-31135 Hildesheim Internet www.heylanalysis.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 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. P390 Absorb spillage to prevent material damage. 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. DE EN (Contd. on page 2)



# Safety data sheet according to 1907/2006/EC

Version number 3 (replaces version 2)

Revision: 27.08.2021

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(Contd. of page 1)

#### **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.

Water CAS 7732-18-5

CAS: 7647-01-0	hydrogen chloride	≥ 2.5 – < 10%
EINECS: 231-595-7	Skin Corr. 1B, H314	
Index number: 017-002-00-2		
Reg.nr.: 01-2119484862-27	Specific concentration limits:	
-	Skin Corr. 1B; H314: C ≥ 25 %	
	Skin Irrit. 2; H315: 10 % ≤ C < 25 %	
	Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
	STOT SE 3; H335: C ≥ 10 %	

SVHC Not applicable.

• 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

- 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.

(Contd. on page 3)

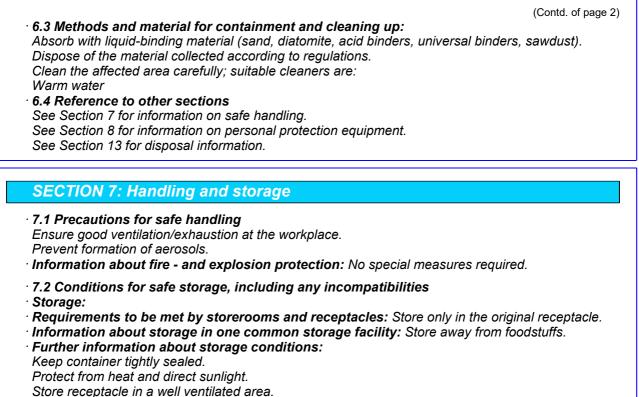


## Safety data sheet according to 1907/2006/EC

Version number 3 (replaces version 2)

Revision: 27.08.2021

#### Trade name: Testomat Calcium Reinigungslösung



• Recommended storage temperature: 15 - 25 °C

· Storage class: Storage class 8B: Non-combustible corrosive substances (TRGS 510)

· 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

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

AGW (Germany) Long-term value: 3 mg/m<sup>3</sup>, 2 ppm 2(I);DFG, EU, Y

- · Regulatory information AGW (Germany): TRGS 900
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as 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
- Meah handa before brooks and at the and of work
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

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

- · Respiratory protection:
- Use suitable respiratory protective device when aerosol or mist is formed. Filter: Type E **Hand protection**



Protective gloves

(Contd. on page 4)

GEBRÜDER HEYL Analysentechnik GmbH & Co. KG Wasser ist unser Element

Printing date 27.08.2021

### Safety data sheet according to 1907/2006/EC

Version number 3 (replaces version 2)

Revision: 27.08.2021

#### Trade name: Testomat Calcium Reinigungslösung

(Contd. of page 3) 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 dearadation 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/face protection Tightly sealed goggles according to EN 166 · Body protection: Protective work clothing SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: Colourless · Odour: Odourless · Odour threshold: Not determined. • Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range Undetermined.

· Flammability

· Lower and upper explosion limit

· Lower:

Upper:

Flash point:

Auto-ignition temperature:

- Decomposition temperature:
- pH at 20 °C
- · Viscosity:
- Kinematic viscosity
- · Dynamic:
- · Solubility
- · water:
- Partition coefficient n-octanol/water (log value)

Not applicable.

Not determined. Not determined. Undetermined. Product is not selfigniting. Not determined. < 1

Not determined. Not determined.

Fully miscible.

Not determined.

(Contd. on page 5)



### Safety data sheet according to 1907/2006/EC

Version number 3 (replaces version 2)

Revision: 27.08.2021

#### Trade name: Testomat Calcium Reinigungslösung

	(Contd. of page
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.02 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Important information on protection of hea	alth
and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not determined.
Explosives Elammable gases	Void Void
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	May be corrosive to metals.
Desensitised explosives	Void

#### 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.
- Reacts with alkali and metals.
- · 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 hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

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

Inhalative LC50/5 min 40,989 ppm (rat)

(Contd. on page 6)

DE\_EN



# Safety data sheet according to 1907/2006/EC

Printing date 27.08.2021

Version number 3 (replaces version 2)

Revision: 27.08.2021

#### Trade name: Testomat Calcium Reinigungslösung

(Contd. of page 5)

#### LC50/30 min 4,701 ppm (rat)

- 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. • **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.
- 11.2 Information on other hazards

#### · Endocrine disrupting properties

None of the ingredients is listed.

#### 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
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · 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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

#### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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.

#### SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA

UN1789

(Contd. on page 7)



### Safety data sheet according to 1907/2006/EC

Version number 3 (replaces version 2)

Revision: 27.08.2021

#### Trade name: Testomat Calcium Reinigungslösung

	(Contd. of page )
14.2 UN proper shipping name ADR IMDG, IATA	1789 HYDROCHLORIC ACID solution HYDROCHLORIC ACID solution
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	8 Corrosive substances. 8
14.4 Packing group ADR, IMDG, IATA	11
· 14.5 Environmental hazards: · Marine pollutant:	No
<ul> <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> <li>Segregation Code</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B Strong acids C SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	Void
ADR Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID SOLUTION, 8

### 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.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- None of the ingredients is listed.

(Contd. on page 8)

DE\_EN



# Safety data sheet according to 1907/2006/EC

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Version number 3 (replaces version 2)

Revision: 27.08.2021

#### Trade name: Testomat Calcium Reinigungslösung

(Contd. of page 7)

3

3

### REGULATION (EU) 2019/1148 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

CAS: 7647-01-0 hydrogen chloride

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

CAS: 7647-01-0 hydrogen chloride

#### · National regulations:

- Information about limitation of use: Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.
- Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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.

#### <sup>.</sup> Relevant phrases

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

- · Department issuing SDS: product safety department
- Date of previous version: 30.10.2020
- · Version number of previous version: 2

### Abbreviations and acronyms: RID: Règlement international concernant le transport des ma

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 relatif au transport international 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
- Met. Corr.1: Corrosive to metals Category 1
- Skin Corr. 1B: Skin corrosion/irritation Category 1B
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- $\cdot$  \* Data compared to the previous version altered.

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