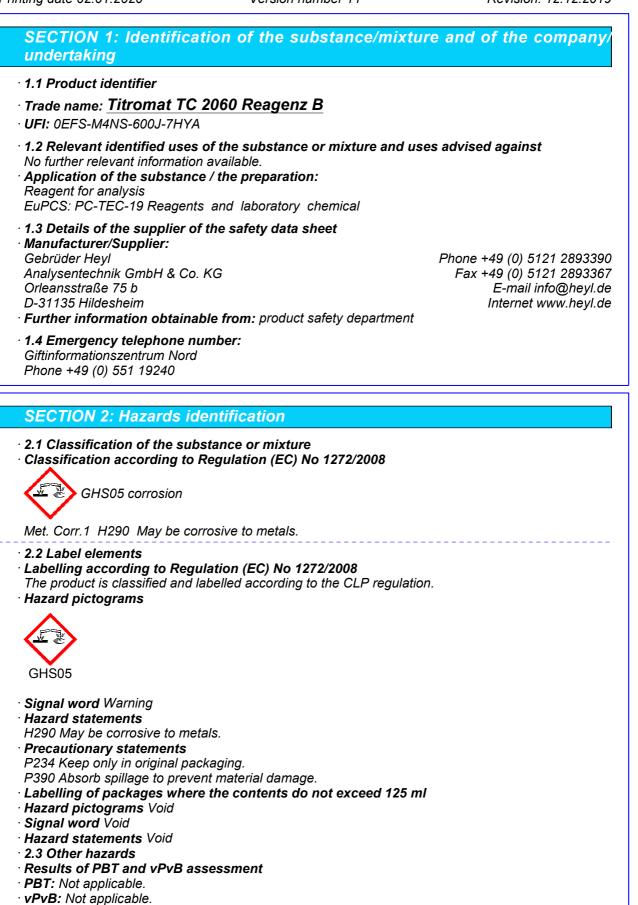


# Safety data sheet according to 1907/2006/EC

Printing date 02.01.2020

### Version number 11

Revision: 12.12.2019



(Contd. on page 2)



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 12.12.2019

## Trade name: Titromat TC 2060 Reagenz B

(Contd. of page 1)

### SECTION 3: Composition/information on ingredients

#### <sup>·</sup> 3.2 Mixtures

· Description:

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

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

(Contd. on page 3)

FU



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 12.12.2019

## Trade name: Titromat TC 2060 Reagenz B

(Contd. of page 2)

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** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · 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: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:
- Keep container tightly sealed.
- 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

- Regulatory information IOELV: (EU) 2017/164
- 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.
- 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 **Protection of hands:**



Protective gloves

Wear gloves according to EN 374.

(Contd. on page 4)



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 12.12.2019

# Trade name: Titromat TC 2060 Reagenz B

(Contd. of page 3) 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: > 0.12 mm
Value for the permeation: Level = $6 (> 480 \text{ min})$
• As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
Recommended thickness of the material: $> 0.12 \text{ mm}$
Value for the permeation: Level = $6 (> 480 \text{ min})$
· Eye protection:
Tightly sealed goggles according to EN 166
· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties		
9.1 Information on basic physica General Information	al and chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value (100 g/l) at 20 °C:	< 1	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling	range: Undetermined.	
Flash point:	Undetermined.	
Flammability (solid, gas):	Not applicable.	
Ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 12.12.2019

## Trade name: Titromat TC 2060 Reagenz B

	(Contd. of page
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.01 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
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

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

LC50/30 min 4,701 ppm (rat)

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.

### **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.

(Contd. on page 6)

EU



# Safety data sheet according to 1907/2006/EC

Version number 11

Revision: 12.12.2019

(Contd. of page 5)

## Trade name: Titromat TC 2060 Reagenz B

• **12.4 Mobility in soil** No further relevant information available.

• Additional ecological information:

<sup>.</sup> General notes:

Not hazardous for water.

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

· 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.

#### SECTION 14: Transport information · 14.1 UN-Number · ADR, IMDG, IATA UN1789 · 14.2 UN proper shipping name ·ADR 1789 HYDROCHLORIC ACID solution · IMDG, IATA HYDROCHLORIC ACID solution · 14.3 Transport hazard class(es) ADR, IMDG, IATA · Class 8 Corrosive substances. · Label 8 · 14.4 Packing group · ADR, IMDG, IATA $\parallel \parallel$ · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Corrosive substances. · Hazard identification number (Kemler code): 80 F-A.S-B · EMS Number: Segregation groups Strong acids Stowage Category Ε · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: Void (Contd. on page 7)

EU -



Version number 11

Revision: 12.12.2019

## Trade name: Titromat TC 2060 Reagenz B

(Contd. of page 6)
5L
Code: E1
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000
ml
3
E
5L
Code: E1
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN 1789 HYDROCHLORIC ACID SOLUTION, 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 None of the ingredients is listed.
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

- Employment restrictions concerning pregnant and lactating women must be observed.
- · 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 SDS: product safety department.

#### 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 Met. Corr.1: Corrosive to metals – Category 1

(Contd. on page 8)

EU



# Safety data sheet according to 1907/2006/EC

Printing date 02.01.2020

Version number 11

Revision: 12.12.2019

Trade name: Titromat TC 2060 Reagenz B

 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 (Contd. of page 7)

 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
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 \* \* Data compared to the previous version altered.
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