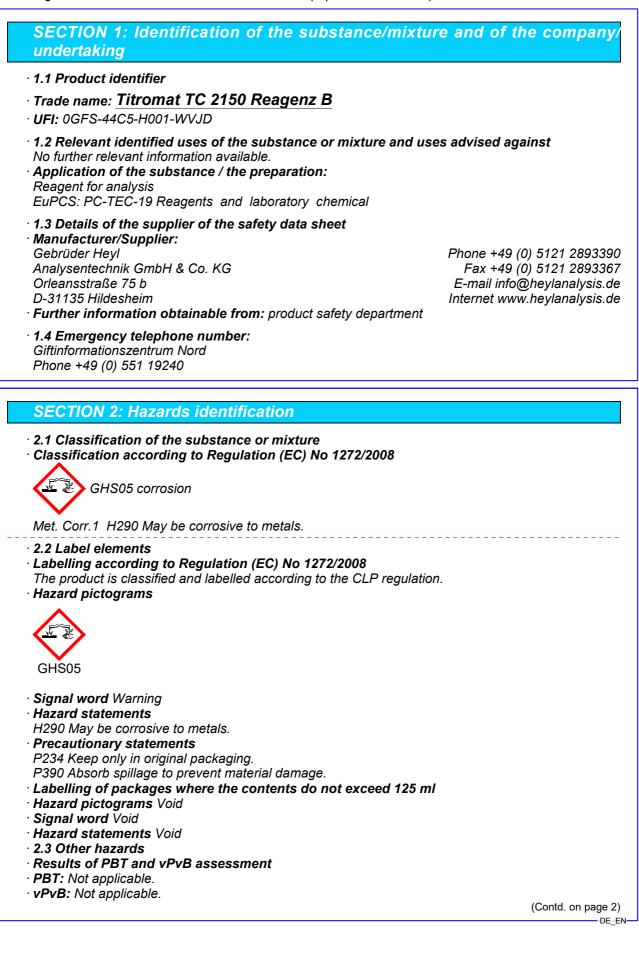
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· Determination of endocrine-disrupting properties Not applicable.

3.2 Mixtures Description:	below with nonhazardous additions according to Reg	ulation (EC) N
1272/2008. Water CAS 7732-18-5	below with nonnazardous additions according to Key	
Dangerous components:		
CAS: 7647-01-0 EINECS: 231-595-7 Index number: 017-002-00-2 Reg.nr.: 01-2119484862-27	<ul> <li>hydrogen chloride</li> <li>Skin Corr. 1B, H314</li> <li>STOT SE 3, H335</li> <li>Specific concentration limits: Skin Corr. 1B; H314: C≥ 25 %</li> <li>Skin Irrit. 2; H315: 10 % ≤ C &lt; 25 %</li> <li>Eye Irrit. 2; H319: 10 % ≤ C &lt; 25 %</li> <li>STOT SE 3; H335: C ≥ 10 %</li> <li>substance with a Community workplace exposure limit</li> </ul>	≥ 2.5 – < 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 (HCl)
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

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#### 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 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
- Storage class:

Storage class 12: Non-combustible liquids that cannot be assigned to any other storage class (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(1);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 section 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
  - 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.

(Contd. on page 4)



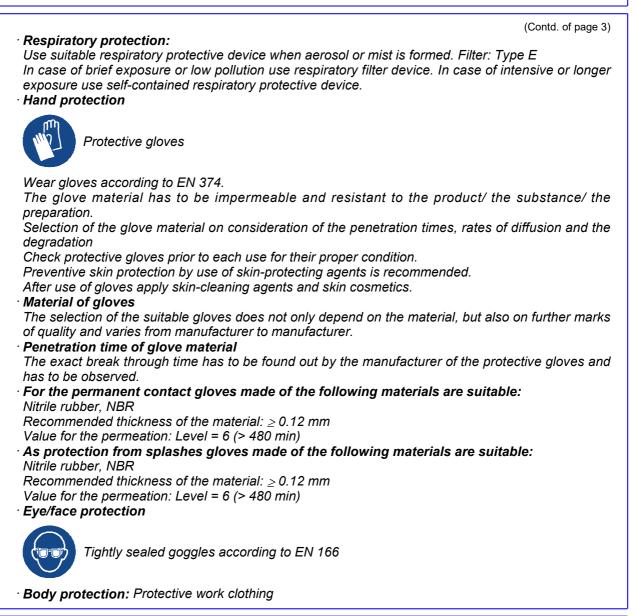
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#### SECTION 9: Physical and chemical properties

9.1 Information on basic physical and	l chemical properties	
General Information		
Physical state	Liquid	
· Colour:	Colourless	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
<ul> <li>Melting point/freezing point:</li> </ul>	Undetermined.	
· Boiling point or initial boiling point a	nd	
boiling range	Undetermined.	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Undetermined.	
• Auto-ignition temperature:	Not determined.	
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Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic:	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log	•
value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.01 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
· · ·	Hot dotorninou.
9.2 Other information	5/4/5
Important information on protection of hea	11(11
and environment, and on safety.	Draduct is not colfigniting
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	/
VOCV (CH)	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical haza	ard
classes	
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
	Void
Pyrophoric liquids	
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.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

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· 10.6 Hazardous decomposition products: Hydrogen chloride (HCl)

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## SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

 $\cdot$  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.

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 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.

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GEBRÜDER HEYL

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

14.1 UN number or ID number ADR, IMDG, IATA	UN1789
· 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	III
· 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 (SGG1) Acids C SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
<ul> <li>14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable.
· Transport/Additional information:	Void
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	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 SOLUTION, 8

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SECTION 15: Regulatory information	
<sup>•</sup> 15.1 Safety, health and environmental regulations/legislation specific for mixture	r the substance o
Directive 2012/18/EU	
• Named dangerous substances - ANNEX I None of the ingredients is listed.	
REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)	
None of the ingredients is listed.	
Regulation (EU) No 649/2012 concerning the export and import of hazardou	us chemicals
None of the ingredients is listed.	
<ul> <li>DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardo electrical and electronic equipment – Annex II</li> </ul>	ous substances i
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value to licensing under Article 5(3))	for the purpose o
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	3
<ul> <li>Regulation (EC) No 111/2005 laying down rules for the monitoring of t Community and third countries in drug precursors</li> </ul>	trade between th
CAS: 7647-01-0 hydrogen chloride	3
· REGULATION (EU) 2024/590 on substances that deplete the ozone layer	
None of the ingredients is listed.	
· National regulations:	
• <i>Information about limitation of use:</i> Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed.	erved.
· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous	s for water.
Other regulations, limitations and prohibitive regulations	
Substances of very high concern (SVHC) according to REACH, Article 57	
None of the ingredients is listed.	
• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not be	en carried out.
SECTION 16: Other information	
This information is based on our present knowledge. However, this shall not con	nstitute a quarante
for any specific product features and shall not establish a legally valid contractua This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2 amended by Regulation (EU) 2020/878.	al relationship.
<ul> <li>Relevant phrases</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> </ul>	
• Department issuing SDS: product safety department • Date of previous version: 28.01.2022	
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Version number of previous version	: 12
Abbreviations and acronyms:	
	ransport des marchandises dangereuses par chemin de fer (Regulati erous Goods by Rail)
ICAO: International Civil Aviation Organisation	• •
the International Carriage of Dangerous Goods	
IMDG: International Maritime Code for Dangero	us Goods
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classifica	ition and Labelling of Chemicals
EINECS: European Inventory of Existing Comm	ercial Chemical Substances
ELINCS: European List of Notified Chemical Su	bstances
CAS: Chemical Abstracts Service (division of th	e American Chemical Society)
VOCV: Lenkungsabgabe auf flüchtigen orga compounds)	nischen Verbindungen, Schweiz (Swiss Ordinance on volatile org
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	1
Met. Corr.1: Corrosive to metals – Category 1	
Skin Corr. 1B: Skin corrosion/irritation - Catego	ry 1B
STOT SE 3: Specific target organ toxicity (single	e exposure) – Category 3
* Data compared to the previous ver	