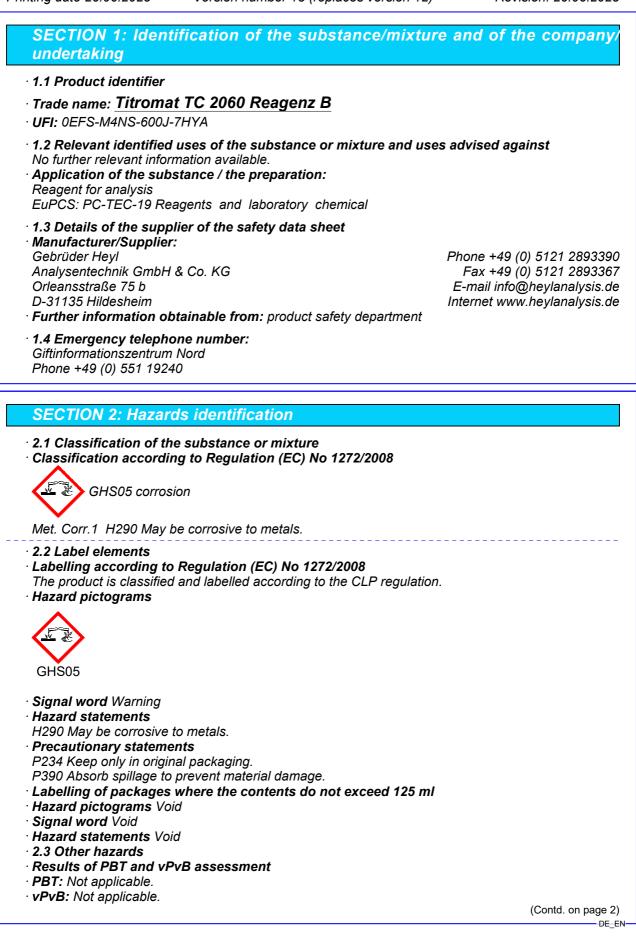
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· Determination of endocrine-disrupting properties Not applicable.

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.

Water CAS 7732-18-5

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

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/m³, 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)



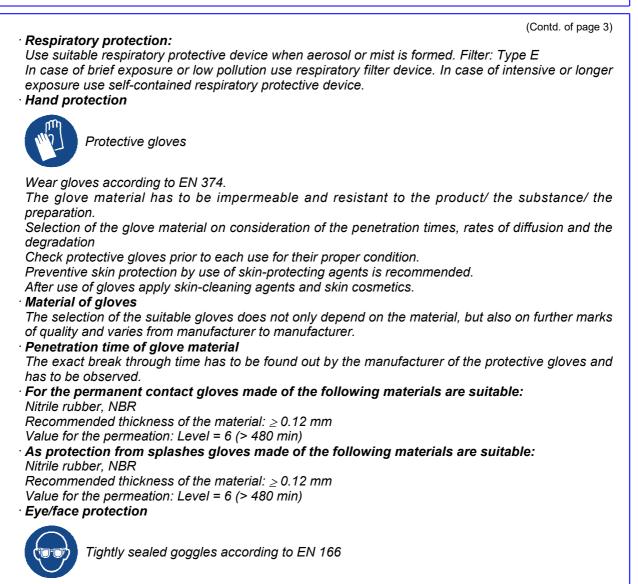
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· Body protection: Protective work clothing

9.1 Information on basic physical an General Information	la cnemical properties	
Physical state	Liquid	
Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point a	and	
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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Not determined. Not determined. Not determined. Not determined. Fully miscible.
Not determined. Not determined.
Not determined.
Not determined.
Fully miscible.
Fully miscible.
Not determined.
Not determined.
1.01 g/cm ³
Not determined.
Not determined.
th
Product is not selfigniting.
Product is not semigriding. Product does not present an explosion hazard.
0.0 %
0.0 /0
Not determined.
rd
Void
Void
Void
Void
Void
May be corrosive to metals.
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:
- Not hazardous for water.

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
14.6 Special precautions for user Hazard identification number (Kemler code EMS Number: Segregation groups Stowage Category Segregation Code	Warning: Corrosive substances. 2): 80 F-A,S-B (SGG1) Acids C SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
<i>14.7 Maritime transport in bulk according t IMO instruments</i>	o Not applicable.
Transport/Additional information:	Void
<i>ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category</i>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3
Tunnel restriction code	Ĕ
<i>IMDG Limited quantities (LQ) Excepted quantities (EQ)</i>	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	
15.1 Safety, health and environmental regulations/legislation specific for the mixture	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 hazardous cl	hemicals
None of the ingredients is listed.	
DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous s electrical and electronic equipment – Annex II	substances i
None of the ingredients is listed.	
REGULATION (EU) 2019/1148	-
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for tallicensing under Article 5(3))	he purpose (
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
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade Community and third countries in drug precursors	e 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	<i>1.</i>
Waterhazard class: Generally not hazardous 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.	orriad cost
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been ca	
SECTION 16: Other information	
This information is based on our present knowledge. However, this shall not constitu	ite a quarante
for any specific product features and shall not establish a legally valid contractual rela This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006 amended by Regulation (EU) 2020/878.	ationship.
Relevant phrases H314 Causes severe skin burns and eye damage.	
H315 Causes skin irritation.	
H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
Department issuing SDS: product safety department	
Date of previous version: 28.01.2022	
	(Contd. on page



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Version number of previous vers	i on: 12
Abbreviations and acronyms:	
	le transport des marchandises dangereuses par chemin de fer (Regulati angerous Goods by Rail)
ICAO: International Civil Aviation Organisat	ion
the International Carriage of Dangerous Go	
IMDG: International Maritime Code for Dang	<i>,</i>
IATA: International Air Transport Associatio	
GHS: Globally Harmonised System of Class	
EINECS: European Inventory of Existing Co	
ELINCS: European List of Notified Chemica	
CAS: Chemical Abstracts Service (division of VOCV: Lenkungsabgabe auf flüchtigen of compounds)	of the American Chemical Society) organischen Verbindungen, Schweiz (Swiss Ordinance on volatile orga
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 Bioaccumul	ative
Met. Corr.1: Corrosive to metals - Category	1
Skin Corr. 1B: Skin corrosion/irritation - Cat	tegory 1B
STOT SE 3: Specific target organ toxicity (s	single exposure) – Category 3
* Data compared to the previous	version altered.