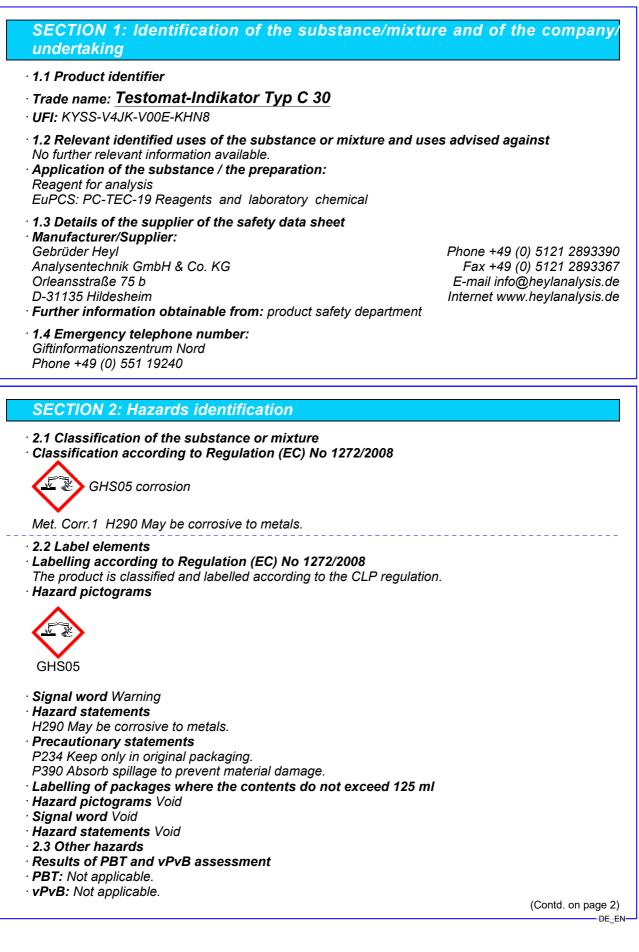
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· Determination of endocrine-disrupting properties Not applicable.

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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.

Propane-1,2-diol CAS 57-55-6

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: $C \ge 25$	
	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 Can form explosive gas-air mixtures.

During heating or in case of fire poisonous gases are produced.

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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

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- · Information about fire and explosion protection: Fumes can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke.
- · 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.

Storage class:

Storage class 10: Combustible liquids that cannot be assigned to any other storage classes (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: 57-55-6 Propylene glycol

MAK (Germany) als Dampf und Aerosol;vgl.Abschn.Ilb und Xc

CAS: 7647-01-0 hydrogen chloride

- AGW (Germany) Long-term value: 3 mg/m³, 2 ppm 2(I);DFG, EU, Y
- Regulatory information
- MAK (Germany): MAK- und BAT-Liste
- AGW (Germany): TRGS 900
- Additional information: The lists valid during the making were used as basis.

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[·] Recommended storage temperature: 15 - 25 °C

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(Contd. of page 3) · 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. Respiratory protection: Use suitable respiratory protective device when aerosol or mist is formed. Filter: Type A, E In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Hand protection Protective gloves 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/face protection Tightly sealed goggles according to EN 166 · Body protection: Protective work clothing

9.1 Information on basic physical and chemical properties		
General Information		
Physical state	Liquid	
Colour:	Yellow	
Odour:	Characteristic	



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Not determined. Undetermined. Undetermined. Not applicable.
Undetermined. Not applicable.
Not applicable.
Not applicable.
2.6 Vol %
12.6 Vol %
Undetermined.
Not determined.
Not determined.
– – – – –
Fully miscible.
Not determined.
Not determined.
1.03 g/cm³
Not determined.
Not determined.
Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
0.0 %
Not determined.
1
Void
Void
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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:
- To avoid thermal decomposition do not overheat.
- 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) Flammable gases/vapours

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)

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.

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- · 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.

• 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
 14.2 UN proper shipping name ADR IMDG, IATA 	1789 HYDROCHLORIC ACID mixture HYDROCHLORIC ACID mixture
 14.3 Transport hazard class(es) 	
· ADR, IMDG, IATA	
· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	///
· 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. 80 F-A,S-B (SGG1) 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)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml
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· · Transport category · Tunnel restriction code	Maximum net quantity per outer packaging: 1000 ml 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 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 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 chemicals 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.

· 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 3

CAS: 7647-01-0 hydrogen chloride

· REGULATION (EU) 2024/590 on substances that deplete the ozone layer

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.

· Technical instructions (air):

Class	Share in %
NK	50 – 100

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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- · 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 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. This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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: 18.05.2021
- · Version number of previous version: 11
- · 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds) 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 * * Data compared to the previous version altered. DE EN