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Safety data sheet according to 1907/2006/EC, Article 31

revised on: 04.12.2023

Version number 15 (replaces version 14)

Creation Date: 27.06.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier · Trade name: Hydrochloric acid · Article number: 810, 825, 830, 836, 843, 846, 857, 864, 868, 869, 870, 871, 873, 889, 892 · CAS Number: 7647-01-0 (Hydrochloric acid) • Registration number This product is a mixture. For relevant UK REACH registration numbers see section 3. · UFI: C8R1-10YY-V00E-WU2J · 1.2 Relevant identified uses of the substance or mixture and uses advised against The product is not intended for use by consumers For professional users only Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU9 Manufacture of fine chemicals SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU24 Scientific research and development Product category PC19 Intermediate PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents PC21 Laboratory chemicals PC29 Pharmaceuticals PC39 Cosmetics, personal care products PC40 Extraction agents **Process category** PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4 Chemical production where opportunity for exposure arises PROC5 Mixing or blending in batch processes PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC15 Use as laboratory reagent Environmental release category ERC1 Manufacture of the substance ERC2 Formulation into mixture ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC6a Use of intermediate · Application of the substance / the mixture Commercial use Chemical analytics Laboratory chemical · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Th. Geyer GmbH & Co. KG Dornierstr. 4 – 6 D-71272 Renningen Tel.: +49(0)7159-1637-0, Fax:+49 (0)7159/18417 www.thgeyer.de sicherheitsdatenblaetter@thgeyer.de (Contd. on page 2)

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Trade name: Hydrochloric acid

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Further inform	ation obtainable from: Product management department	
	/ telephone number:	
National Poisor City Hospital	ns Information Service	
Dudley Road		
Birmingham B1	8 7QH	
Tel.:Emergency	/: (00 44) 87 06 00 62 66	
	public seeking specific information on poisons should contact: Wales: NHS 111 - dial 111	
In Scotland: NH		
SECTION 2 :	Hazards identification	
	ion of the substance or mixture according to Regulation (EC) No 1272/2008	
GHS(05 corrosion	
	H290 May be corrosive to metals.	
	H314 Causes severe skin burns and eye damage.	
Eye Dam. 1	H318 Causes serious eye damage.	
\wedge		
GHS)7	
STOT SE 3	H335 May cause respiratory irritation.	
2.2 Label elem	ents	
	ording to Regulation (EC) No 1272/2008	
	classified and labelled according to the GB CLP regulation.	
Hazard pictog	rams	
	>	
	07	
GHS05 GHS	07	
Signal word D	anger	
Hazard-detern	ining components of labelling:	
Hydrochloric ad		
Hazard statem		
	orrosive to metals. evere skin burns and eye damage.	
	e respiratory irritation.	
Precautionary		
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
	331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin [or shower].	with wate
P305+P351+P3	338 F IN EYES: Rinse cautiously with water for several minutes. Remove contact ler present and easy to do. Continue rinsing.	nses, if
P310	Immediately call a POISON CENTER/doctor.	
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- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

Dangerous compo	nents:
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CAS: 7647-01-0 Hydrochloric acid ≥5–<38% EINECS: 231-595-7 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Reg.nr.: 01-2119484862-27-XXXX 🚯 STOT SE 3, H335 · 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: First aider needs to protect himself. Remove breathing equipment only after contaminated clothing have been completely removed. Immediately remove any clothing soiled by the product. · After inhalation: Take affected persons into fresh air and keep quiet. Administer glucocorticoid dose aerosol in case of lung irritation. Call a doctor immediately. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Wash with plenty of soap and water, take off soiled clothes and shoes. Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing. Take into account possible simultaneous inhalation. · After eye contact: Keep evelids open and rinse copiously with clean running water for at least 10 minutes. Call a doctor immediately. Protect unharmed eye. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting - risk of aspiration. Call a doctor immediately. Place a vomiting person lying on their back in the recovery position. · Information for doctor: Please observe safety data sheet/label. · 4.2 Most important symptoms and effects, both acute and delayed Cramp Gastric or intestinal disorders Nausea · Hazards Danger of pulmonary oedema. Danger of pneumonia. Danger of circulatory collapse. Risk of eye damage. Danger of impaired breathing. Danger of gastric perforation. Risk of blindness. · 4.3 Indication of any immediate medical attention and special treatment needed In case of lung irritation, administer glucocorticoid dose aerosol. (Contd. on page 4)

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Monitor circulation. Symptomatic treatment. (Contd. of page 3)

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet.
- **5.2 Special hazards arising from the substance or mixture** In case of fire, the following can be released: Hydrogen chloride gas

In case of fire, formation of dangerous fire gases and vapours possible.

- · 5.3 Advice for firefighters
- · Protective equipment:
- Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Safely prevent extinguishing water from entering groundwater or surface water.

SECTION 6: Accidental release measures

\cdot 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing.
- Clear the danger zone.

Ensure adequate ventilation.

Avoid contact with eyes and skin.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Involve experts.

- Corrosive to metals.
- 6.2 Environmental precautions: Suppress gases/fumes/haze with water spray.

Do not allow to enter sewers/surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Cover the sewerage system.

Prevent spreading over an area (e.g. by damming or oil booms). Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

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
 Open and handle receptacle with care.
 Apply the general protective and hygienic measures when handling chemicals.
 Ensure good ventilation/exhaustion at the workplace.
 • Information about fire and explosion protection:
- Substance itself does not burn, adapt extinguishing measures to surroundings Keep respiratory protective device available.

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· 7.2 Conditions for safe storage, including any incompatibilities
· Storage:
 Requirements to be met by storerooms and receptacles:
Store only in the original receptacle.
Do not use light alloy receptacles.
 Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
Store away from water.
Store away from metals.
 Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from moisture. Protect from heat and direct sunlight.
· Storage class: 8 B
• 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 Hydrochloric acid
WEL Short-term value: 8 mg/m ³ , 5 ppm
Long-term value: 2 mg/m ³ , 1 ppm (gas and aerosol mists)
· PNECs
- values relevant to the environment
PNEC 0.176 mg/l freshwater short-term (single)
PNEC 0.018 mg/l seawater short-term (one-off)
PNEC 1.35 mg/l Wastewater treatment plant (STP) short-term (one-off)
PNEC 6.97 mg/kg freshwater sediment short-term (single) PNEC 0.697 mg/kg marine sediment short-term (single)
PNEC 1.29 mg/kg soil short-term (single)
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. Wash hands before breaks and at the end of work.
• Respiratory protection: Not required.
· Hand protection
Protective gloves
The alove motorial has to be impermeable and registert to the preduct/the substance/the prevention
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
· 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. As the product is a preparation of several substances, the
resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
NBR: Acrylonitrile butadiene rubber

NBR: Acrylonitrile butadiene rubber

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Material thickness > 0.4 mm • 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.

Level 6 for applications > 480 min

· Eye/face protection



Tightly sealed goggles

· Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical p	roperties
· General Information	
· Physical state	Fluid
· Colour:	Colourless
· Odour:	Pungent
· Odour threshold:	Not determined.
 Melting point/freezing point: 	Undetermined.
 Boiling point or initial boiling point and boiling 	
range	Undetermined.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
 Decomposition temperature: 	Not determined.
· pH at 20 °C	<1
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	23 hPa (CAS: 7732-18-5 Water)
· Density and/or relative density	
· Density at 20 °C:	~1.15 g/cm ³
	Not determined.
Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and	
environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
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· Solvent content:	
· Water:	>63.0 %
· VOC (EC)	0.00 %
Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard	
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
 Pyrophoric liquids 	Void
 Pyrophoric solids 	Void
 Self-heating substances and mixtures 	Void
 Substances and mixtures, which emit flammable 	e
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 Corrosive to metals.
- · 10.2 Chemical stability Stable when stored and handled properly.
- **10.3 Possibility of hazardous reactions** Reactions with alkalis
- Reacts with strong oxidising agents. Reacts with water.
- Corrosive action on metals.
- · 10.4 Conditions to avoid Protect from moisture.
- 10.5 Incompatible materials:
- Light metals Strong oxidising agents
- Avoid contact with other chemicals.
- 10.6 Hazardous decomposition products: In case of fire: see section 5.

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 Hydrochloric acid

Oral LD50 900 mg/kg (rabbit)

Dermal LD50 >5,010 mg/kg (rabbit)

- · Skin corrosion/irritation Causes severe skin burns and eye damage.
- · Serious eye damage/irritation Causes serious eye damage.

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- 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.
- \cdot 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 May cause respiratory irritation.
- 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. Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Observe local (country-specific) regulations and laws. This product and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Chemicals must be disposed of in accordance with the respective national regulations.

· European	waste catalogue
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 02*	hydrochloric acid
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 13 00	wastes from inorganic chemical processes not otherwise specified
06 13 99	wastes not otherwise specified
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP8	Corrosive
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- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- · 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	1789 HYDROCHLORIC ACID solution
IMDG, IATA	HYDROCHLORIC ACID solution
14.3 Transport hazard class(es)	
ADR	
A A A A A A A A A A A A A A A A A A A	
Class	8 (C1) Corrosive substances.
Label	8
Class	8 Corrosive substances.
Label	8
14.4 Packing group ADR, IMDG, IATA	11
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	(SGG1a) Strong acids
Stowage Category	C
Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
14.7 Maritime transport in bulk according to IM	
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
Transport category	Maximum net quantity per outer packaging: 500 ml 2
Tunnel restriction code	E

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· IMDG	
 Limited quantities (LQ) 	1L
 Excepted quantities (EQ) 	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID SOLUTION, 8, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Inventory of Hazardous Chemicals

None of the ingredients is listed.

· Poisons Act

Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



· Signal word Danger

- Hazard-determining components of labelling: Hydrochloric acid
- · Hazard statements
- H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor.

· Directive 2012/18/EU

P310

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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electronic equipment - Annex II None of the ingredients is listed. REGULATION (EU) 2019/14/8 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 None of the ingredients is listed. Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors None of the ingredients is listed. Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors None of the ingredients is listed. Regulations Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning pregnant and lactating women must be observed. 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. The application, use and processing of our products are beyond our control and are therefore exclusively y responsibility. Relevant phrases H320 May be corrosive to metals. H314 Causes servers skin burns and eye damage. H335 May cause respiratory irritation. Department issuing SDS: Product management Contact: Product management Version number of previous version: 14 Abbreviations and accoupment. Abbreviations and accoupment. Abbreviations and accoupment. Accourse and management Contact: Product managemen	DIRECTIVE 2011/65/EU on the restriction of the use of certain hazard	(Contd. of pag
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