

Page 1/12

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

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: Hydrochloric acid 2 mol / I
· Article number: 860 · CAS Number: - · EINECS Number: -
<ul> <li>Registration number This product is a mixture. UK REACH registration numbers see section 3.</li> <li>UFI: 2030-V0X0-1000-Y161</li> </ul>
1.2 Relevant identified uses of the substance or mixture and uses advised against
<ul> <li>Life cycle stages</li> <li>F Formulation or re-packing</li> <li>IS Use at industrial Sites</li> </ul>
· <b>Sector of Use</b> SU9 Manufacture of fine chemicals
SU3 Manufacture of fine chemicals SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU24 Scientific research and development
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites • <b>Product category</b>
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
<ul> <li>Process category</li> <li>PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.</li> </ul>
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
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
<ul> <li>Environmental release category</li> <li>ERC1 Manufacture of the substance</li> <li>ERC2 Formulation into mixture</li> </ul>
ERC3 Formulation into solid matrix ERC6a Use of intermediate
<ul> <li>Application of the substance / the mixture Industrial use</li> </ul>
Laboratory chemicals Reagent for analysis
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier:</li> </ul>
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)

(Contd. on page 2)

revised on: 07.06.2023

Version number 10

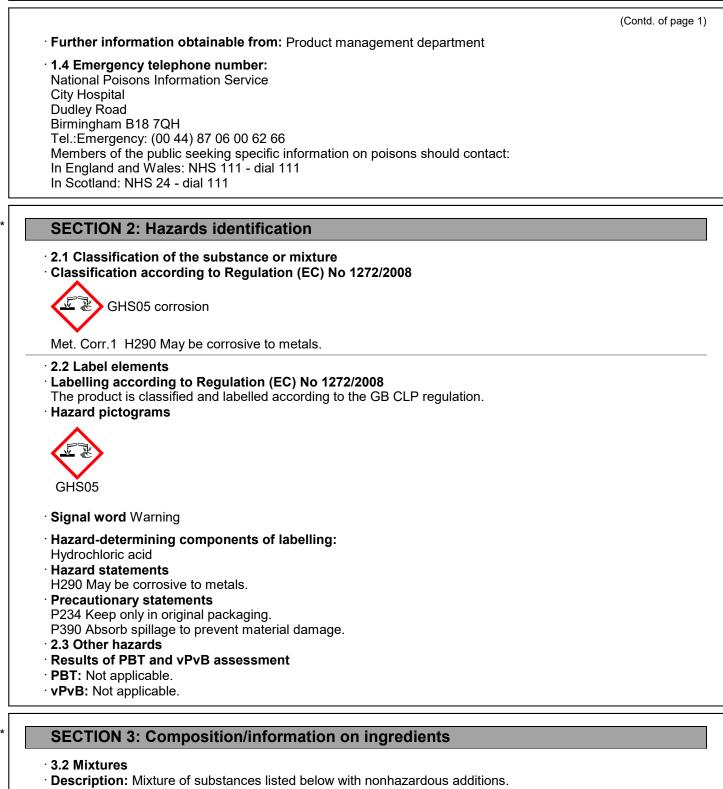
Creation Date: 30.10.2015



· Dangerous components:

CAS: 7647-01-0

EINECS: 231-595-7



Hydrochloric acid

• Additional information: For the wording of the listed hazard phrases refer to section 16.

Reg.nr.: 01-2119484862-27-XXXX 🔥 STOT SE 3, H335

📀 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318

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(Contd. on page 3)

≥5–<10%

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

#### Trade name: Hydrochloric acid 2 mol / I

(Contd. of page 2)

SECTION 4: First aid measures	
· 4.1 Description of first aid measures	
General information:	
First aider needs to protect himself.	
Take affected persons out into the fresh air.	
Immediately remove any clothing soiled by the product.	
• After inhalation:	
Supply fresh air.	
Seek medical treatment in case of complaints.	
After skin contact:	
Flush contaminated skijn with soap and plenty of water.	
After prolonged contact or any signs of skin changes (redness or other signs of in	nflammation) seek medical
attention.	
· After eye contact:	
Protect unharmed eye.	
Rinse opened eye for several minutes under running water. Then consult a docto	pr.
Remove any contact lenses if possible.	
Continue rinsing.	
After swallowing:	
Rinse out mouth and then drink plenty of water.	
Call a doctor immediately.	
Information for doctor: Please observe safety data sheet/label.	
4.2 Most important symptoms and effects, both acute and delayed	
Gastric or intestinal disorders	
Cramp	
Nausea · <b>Hazards</b> Danger of gastric perforation.	
• 4.3 Indication of any immediate medical attention and special treatment net	hehe
Give Glucocorticoid-Aerosol in case of lung irritation.	2464
Symptomatic treatment.	
Symptomatic treatment. SECTION 5: Firefighting measures	
Symptomatic treatment.  SECTION 5: Firefighting measures  5.1 Extinguishing media	
Symptomatic treatment.  SECTION 5: Firefighting measures  5.1 Extinguishing media Suitable extinguishing agents:	
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Symptomatic treatment.  SECTION 5: Firefighting measures  5.1 Extinguishing media  Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. Carbon dioxide, powder, water spray or alcohol-resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet. 5.2 Special hazards arising from the substance or mixture Not combustible. In case of fire, the following can be released: Hydrogen chloride (HCI) Under certain fire conditions, traces of other toxic gases cannot be excluded. 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combustion gases. Wear fully protective suit.	
Symptomatic treatment.  SECTION 5: Firefighting measures  5.1 Extinguishing media Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. Carbon dioxide, powder, water spray or alcohol-resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet. 5.2 Special hazards arising from the substance or mixture Not combustible. In case of fire, the following can be released: Hydrogen chloride (HCI) Under certain fire conditions, traces of other toxic gases cannot be excluded. 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combustion gases. Wear fully protective suit. Mouth respiratory protective device.	
Symptomatic treatment.  SECTION 5: Firefighting measures  5.1 Extinguishing media Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. Carbon dioxide, powder, water spray or alcohol-resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet. 5.2 Special hazards arising from the substance or mixture Not combustible. In case of fire, the following can be released: Hydrogen chloride (HCl) Under certain fire conditions, traces of other toxic gases cannot be excluded. 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combustion gases. Wear fully protective suit.	

#### **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Provide adequate ventiliation and do not vapors, dust or gases. Ensure adequate ventilation.

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

### Trade name: Hydrochloric acid 2 mol / I

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Particular danger of slipping on leaked/spilled product.	(Contd. of page 3)
Avoid contact with eyes and skin. Wear protective equipment. Keep unprotected persons away. • 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water. • 6.3 Methods and material for containment and cleaning up:	
Cover drains. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdus Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.	t).
<ul> <li>6.4 Reference to other sections</li> <li>See Section 7 for information on safe handling.</li> <li>See Section 8 for information on personal protection equipment.</li> <li>See Section 13 for disposal information.</li> </ul>	
SECTION 7: Handling and storage	
7.1 Precautions for safe handling	
Keep receptacles tightly sealed. Keep away from heat and direct sunlight.	
Ensure good ventilation/exhaustion at the workplace.	
Open and handle receptacle with care.	
Prevent formation of aerosols. • Information about fire - and explosion protection: Keep respiratory protective device ava	ilable.
· 7.2 Conditions for safe storage, including any incompatibilities	
<ul> <li>Storage:</li> <li>Requirements to be met by storerooms and receptacles:</li> </ul>	
Provide acid-resistant floor.	
Store only in the original receptacle.	
<ul> <li>Information about storage in one common storage facility: Store away from oxidising agents.</li> </ul>	
Store away from reducing agents.	
· Further information about storage conditions:	
Store in cool, dry conditions in well sealed receptacles. Protect from heat and direct sunlight.	
Keep container tightly sealed.	
<ul> <li>Storage class: 12</li> <li>7.3 Specific end use(s) No further relevant information available.</li> </ul>	
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 <sup>3</sup> , 5 ppm	
Long-term value: 2 mg/m³, 1 ppm (gas and aerosol mists)	
• 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.	
<ul> <li>Individual protection measures, such as personal protective equipment</li> </ul>	
General protective and hygienic measures:	
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing	
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.	

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

#### Trade name: Hydrochloric acid 2 mol / I

(Contd. of page 4)

Avoid contact with the eyes and skin.

#### **Respiratory protection:**

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. If air-purifying respiratory protection is required according to the risk assessment, wear a respirator with full-face mask with combination filter (US) or with filter type ABEK (EN 14387) filter cartridge. If the respirator is the only protective measure, an ambient air self-contained breathing apparatus with afull face mask must be worn. Respirators and components must be approved to appropriate government standards (for example, NIOSH (US) or CEN (EU)).Translated with www.DeepL.com/Translator (free version)

#### Hand protection



Protective gloves

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

Material thickness > 0.11 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).

9.1 Information on basic physical and ch	nemical properties	
General Information		
Physical state	Fluid	
Colour:	According to product specification	
Odour:	Characteristic	
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	

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

Trade name: Hydrochloric acid 2 mol / I

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Viscosity:	
Kinematic viscosity	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:	~1.05 g/cm³
	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.
Solvent content:	
Water:	≥90.0 %
VOC (EC)	0.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	S
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	voiu
•	Void
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 Stable with proper storage and handling.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with alkaline metals.
- Corrosive action on metals.
- · 10.4 Conditions to avoid
- Protect from humidity.

Heat, flames and sparks

(Contd. on page 7)

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

Trade name: Hydrochloric acid 2 mol / I

#### · 10.5 Incompatible materials: Avoid contact with other chemicals.

· 10.6 Hazardous decomposition products: On fire: see chapter 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.
- 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:

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

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 pHvalue 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 material 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 compliance with the respective national regulations.

#### European waste catalogue

06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES

(Contd. on page 8)

#### (Contd. of page 6)

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

Trade name: Hydrochloric acid 2 mol / I

	(Contd. of page 7)
06 01 00	wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 02*	hydrochloric acid
HP8	Corrosive
•	

Uncleaned packaging:
 Recommendation: 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 HYDROCHLORIC ACID
14.3 Transport hazard class(es)	
ADR	
ST 22	
Class	8 (C1) Corrosive substances.
Label	8
Class	8 Corrosive substances.
Label	8
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user EMS Number: Segregation groups Stowage Category	Warning: Corrosive substances. F-A,S-B (SGG1) Acids E
14.7 Maritime transport in bulk according instruments	g to IMO Not applicable.
Transport/Additional information:	
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
Transport category Tunnel restriction code	3 E
	Contd. on pag

(Contd. of page 8)

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

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

Trade name: Hydrochloric acid 2 mol / I

·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 1789 HYDROCHLORIC ACID, 8, III

· UN "Model Regulation":

### **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.

#### · Directive 2012/18/EU

· Named dangerous substances - ANNEX I 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

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.

#### · 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 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. Application, use and handling of our products take place out of our control and are solely your responsibility.

· Relevant phrases

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

• Department issuing SDS: Product management

· Contact: Product management

Abbreviations and acronyms:

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

(Contd. on page 10)

revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

### Trade name: Hydrochloric acid 2 mol / I

	(Contd. of page 9)
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)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Met. Corr.1: Corrosive to metals – Category 1	
Skin Corr. 1B: Skin corrosion/irritation – Category 1B	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
* Data compared to the previous version altered.	

(Contd. on page 11)

(Contd. of page 10)

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

Version number 10

Creation Date: 30.10.2015

#### Trade name: Hydrochloric acid 2 mol / I

revised on: 07.06.2023

Annex: Exposure scenario

 Short title of the exposure scenario Chemicals for Laboratory and industrial use Sector of Use SU9 Manufacture of fine chemicals SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU24 Scientific research and development SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites 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 PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) · Environmental release category ERC1 Manufacture of the substance ERC2 Formulation into mixture ERC3 Formulation into solid matrix ERC6a Use of intermediate Notes The product is intended for professional use. The product is not intended for private use. Do not use for private / domestic purposes (household). Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet. · Conditions of use · Duration and frequency 5 workdays/week. · Worker 8hrs (full working shift). · Physical parameters · Physical state Fluid · Concentration of the substance in the mixture The substance is main component. · Other operational conditions · Other operational conditions affecting environmental exposure Observe section 6 of the Safety Data Sheet (Accidental release measures). Other operational conditions affecting worker exposure Avoid contact with eyes. Avoid contact with the skin. Do not breathe gas/vapour/aerosol. Other operational conditions affecting consumer exposure No special measures required. Keep out of the reach of children. • Other operational conditions affecting consumer exposure during the use of the product Not applicable. Risk management measures · Worker protection · Organisational protective measures Employment restrictions concerning juveniles must be observed.

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revised on: 07.06.2023

Version number 10

Creation Date: 30.10.2015

## Trade name: Hydrochloric acid 2 mol / I

(Contd. of page 11)
Employment restrictions concerning pregnant and lactating women must be observed.
Consider section 4 of the Safety Data Sheet (First aid measures). Provide Internal Plant Instruction.
• <b>Technical protective measures</b> Ensure that suitable extractors are available on processing machines
· Personal protective measures
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes.
Tightly sealed goggles
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. If air-purifying respiratory protection is required according to the
risk assessment, wear a respirator with full-face mask with combination filter (US) or with filter type ABEK (EN
14387) filter cartridge. If the respirator is the only protective measure, an ambient air self-contained breathing
apparatus with afull face mask must be worn. Respirators and components must be approved to appropriate
government standards (for example, NIOSH (US) or CEN (EU)).Translated with www.DeepL.com/Translator (free version)
Protective gloves
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
The usual precautionary measures are to be adhered to when handling chemicals.
Measures for consumer protection
Ensure adequate labelling.
Keep locked up and out of the reach of children.
Environmental protection measures
Avoid release to the environment. Obtain special instructions / refer to Safety Data Sheet.
<ul> <li>Water</li> <li>Do not allow to reach ground water, water bodies or sewage system.</li> </ul>
Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.
• Soil Prevent contamination of soil.
• <b>Notes</b> In case of unintended release of the product: See section 6 of the Safety Data Sheet.
· Disposal measures
Disposal must be made according to official regulations.
Ensure that waste is collected and contained.
· Disposal procedures
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
• Waste type Partially emptied and uncleaned packaging
Exposure estimation
• Consumer Not relevant for this Exposure Scenario.
· Guidance for downstream users No further relevant information available.
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