

Conductivity standard 500,000 μS/cm (25 °C) certified reference material traceable to NIST					
Revision date: 07.03.2023	Product code: 17746	Page 1 of 11			
SECTION 1: Identification of the	ne substance/mixture and of the compa	any/undertaking			
1.1. Product identifier					
Conductivity standard 500,0	000 μS/cm (25 °C) certified reference materia	I traceable to NIST			
UFI:	JK4K-21GS-Q007-M7K3				
1.2. Relevant identified uses of the	e substance or mixture and uses advised a	against			
	ostances as such or in preparations at industr omain (administration, education, entertainmo				
Uses advised against Do not use for private purpo	oses (household).				
1.3. Details of the supplier of the	<u>safety data sheet</u>				
Company name:	AnalytiChem GmbH				
Street: Place:	Stempelstraße 6 D-47167 Duisburg				
Telephone: e-mail:	0203/5194-0 info@analytichem.de	Telefax: 0203/5194-290			
Contact person: e-mail: Internet: Responsible Department:	Abteilung Produktsicherheit produktsicherheit@analytichem.de www.analytichem.de Abteilung Produktsicherheit	Telephone: 0203/5194-107/117			
<u>1.4. Emergency telephone</u> number: Further Information	For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)				

Further Information

inapplicable, this product is a mixture REACH registration number see section 3

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling Hydrochloric acid

Signal word:

Pictograms:





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Hazard statements

H290	May be corrosive to metals.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

•		
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
		present and easy to do. Continue rinsing.
	P337+P313	If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures in aqueous solution

Hazardous components

CAS No	Chemical name	Chemical name				
	EC No	EC No Index No REACH No				
	Classification (GB CLF	Classification (GB CLP Regulation)				
7647-01-0	Hydrochloric acid	Hydrochloric acid				
	231-595-7	017-002-01-X	01-2119484862-27			
	Skin Corr. 1B, STOT SE 3; H314 H335					

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. I	onc. Limits, M-factors and ATE			
7647-01-0	231-595-7	Hydrochloric acid	10 - < 15 %		
	Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 STOT SE 3; H335: >= 10 - 100				

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids



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apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritant — skin irritation and eye damage Cough Dyspnoea

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible liquids Hazardous combustion products In case of fire may be liberated: Hydrochloric gas

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Corrosive to metals.

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Consult an expert Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).



Safety Data Sheet

according to UK REACH Regulation

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Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Use extractor hood (laboratory). Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Further information on handling

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool place.

Hints on joint storage

national regulations

Further information on storage conditions

Unsuitable container/equipment material: Metal

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
7647-01-0	Hydrochloric acid				
Worker DNEL,	long-term	inhalation	local	8 mg/m³	
Worker DNEL, acute		inhalation	local	15 mg/m³	
Consumer DNEL, long-term		inhalation	local	8 mg/m³	
Consumer DNEL, acute		inhalation	local	15 mg/m³	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Face protection shield goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable examples are gloves of KCL GmbH, D-36124 Eichenzell, e-mail: vertrieb@kcl.de with the following specification (test according to EN 374):

By long-term hand contact Trade name/designation: KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 730 Camatril® Velours Suitable material: NBR (Nitrile rubber) 0,4 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).



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Skin protection

Wear suitable protective clothing. Protective clothing acid-resistant

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation Filtering device with filter or ventilator filtering device of type: E-(P2)

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and ch	emical properties	
Physical state:	Liquid	
Colour:	colourless	
Odour:	stinging	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability:		not applicable
		not applicable
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value (at 20 °C):		acidic
Viscosity / kinematic:		No data available
Water solubility:		easily soluble
Solubility in other solvents		-
not determined		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density (at 20 °C):		1,06935 g/cm³
Bulk density:		No data available
Relative vapour density:		No data available
9.2. Other information		
Information with regard to physical ha	zard classes	
Explosive properties		
No data available		
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Oxidizing properties		
No data available		
Other safety characteristics		
Evaporation rate:		No data available
Solvent separation test:		No data available
Solvent content:		No data available
Solid content:		No data available
Sublimation point:		No data available
Softening point:		No data available



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Pour point: No data available:	No data available	
Viscosity / dynamic:	No data available	
Flow time:	No data available	

Further Information

Corrosive to metals

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive to metals.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Amines, permanganates, e.g. potassium permanganate, aldehydes Ignition hazard: Carbide, Fluorine Possibility of hazardous reactions: Aluminium, Formaldehyde, Metal, Alkali (Iye) Danger of explosion: Alkali metals, Sulphuric acid, concentrated

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Keep away from: Metal.

The product develops hydrogen in an aqueous solution in contact with metals.

10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

Pulmonary oedema

Mucous membrane irritation in the mouth, throat, esophagus and gastrointestinal tract.

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (Hydrochloric acid)

STOT-repeated exposure

Based on available data, the classification criteria are not met.



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Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

There are no data available on the mixture itself.

Additional information on tests

There are no data available on the mixture itself.

Practical experience

There are no data available on the mixture itself.

11.2. Information on other hazards

Other information

There are no data available on the mixture itself.

Further information

Irritant — skin irritation and eye damage Cough Dyspnoea

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7647-01-0	Hydrochloric acid						
	Acute fish toxicity	LC50	862 mg/l	96 h	Leuciscus idus		

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

Discharge into the environment must be avoided. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted.

Further information

Do not empty into drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.



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Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADR/RID)	
<u>14.1. UN number or ID number:</u>	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
<u>14.3. Transport hazard class(es):</u>	8
14.4. Packing group:	11
Hazard label:	8
Classification code:	C1
Special Provisions:	520
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	—
	80
Tunnel restriction code:	E
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	UN 1789
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.3. Transport hazard class(es):	8
14.4. Packing group:	11
Hazard label:	8
Classification code:	C1
Special Provisions:	520
Limited quantity:	1L
Excepted quantity:	E2
· · · ·	Ez
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1789
14.1. UN number or ID number: 14.2. UN proper shipping name:	UN 1789 HYDROCHLORIC ACID
14.2. UN proper shipping name:	HYDROCHLORIC ACID
14.2. UN proper shipping name: 14.3. Transport hazard class(es):	HYDROCHLORIC ACID 8
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	HYDROCHLORIC ACID 8 II
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions:	HYDROCHLORIC ACID 8 II 8
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity:	HYDROCHLORIC ACID 8 II 8 -
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions:	HYDROCHLORIC ACID 8 II 8 - 1 L E2
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:	HYDROCHLORIC ACID 8 II 8 - 1 L
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity Passenger:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8 A3 A803
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity Passenger:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8 A3 A803 0.5 L
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity Passenger: Passenger LQ:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8 A3 A803 0.5 L Y840
14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity: Excepted quantity: EmS: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Hazard label: Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8 A3 A803 0.5 L Y840 E2
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity Passenger:Passenger LQ:Excepted quantity:IATA-packing instructions - Passenger:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8 A3 A803 0.5 L Y840 E2 851
14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity:Excepted quantity:EmS:Air transport (ICAO-TI/IATA-DGR)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:Special Provisions:Limited quantity Passenger:Passenger LQ:Excepted quantity:IATA-packing instructions - Passenger:IATA-max. quantity - Passenger:	HYDROCHLORIC ACID 8 II 8 - 1 L E2 F-A, S-B UN 1789 HYDROCHLORIC ACID 8 II 8 A3 A803 0.5 L Y840 E2 851 1 L



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14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

SECTION 15: Regulatory information

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

EU regulatory information

SECTION 16: Other information	
Water hazard class (D):	1 - slightly hazardous to water
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
National regulatory information	
Restrictions on use (REACH, annex XVII): Entry 3 Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Changes

This data sheet contains changes from the previous version in section(s): 9.

Abbreviations and acronyms

ADR: Accord européen sur le transport 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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Met. Corr. 1; H290	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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according to UK REACH Regulation

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)