

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Substance / mixture	Hydrochloric acid 34-37%
Number	substance
	SAC2000, SAC0031, SAC0032, UAC0031, SAC00011
Chemical name	hydrochloric acid
CAS number	7647-01-0
Index number	017-002-01-X
EC (EINECS) number	231-595-7
Registration number	01-2119484862-27-0168

1.2. Relevant identified uses of the substance or mixture and uses advised against Substance's intended use

For professional use only. Laboratory chemical substances.

The use descriptors

SU 24	Scientific research and development
PC 21	Laboratory chemicals
PROC 15	Use as laboratory reagent

Substance uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	Analytika, spol. s r.o.
Address	Ke Klíčovu 816/2a, Praha 9 - Vysočany, 190 00 Czech Republic
Identification number (CRN)	14891883
VAT Reg No	CZ14891883
Phone	+420 286 589 616
E-mail	msds@analytika.net
Web address	www.analytika.net

Competent person responsible for the safety data sheet

Name	Analytika, spol. s r.o.
E-mail	msds@analytika.net

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008

The substance is classified as dangerous.

Met. Corr. 1, H290
Skin Corr. 1B, H314
STOT SE 3, H335

Full text of all classifications and hazard statements is given in the section 16.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

Most serious adverse physico-chemical effects

May be corrosive to metals.

Most serious adverse effects on human health and the environment

May cause respiratory irritation. Causes severe skin burns and eye damage.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Dangerous substance

hydrochloric acid

(Index: 017-002-01-X; CAS: 7647-01-0)

Hazard statements

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

Precautionary statements

P260	Do not breathe fume/vapours/spray.
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.
P310	Immediately call a doctor.

Supplemental information

2.3. Other hazards

Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 017-002-01-X CAS: 7647-01-0 EC: 231-595-7 Registration number: 01-2119484862-27-0168	substance main component hydrochloric acid	35	Met. Corr. 1, H290 Skin Corr. 1B, H314 STOT SE 3, H335 Specific concentration limit: Met. Corr. 1, H290: C ≥ 0,1 % STOT SE 3, H335: C ≥ 10 % Eye Irrit. 2, H319: 1 % ≤ C < 25 % Skin Irrit. 2, H315: 1 % ≤ C < 25 % Skin Corr. 1B, H314: C ≥ 25 %	1, 2

Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

DO NOT INDUCE VOMITING - there is danger of further damage to the gastrointestinal tract!!! Danger of esophageal and gastric perforation! RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. May cause respiratory irritation.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

Symptomatic treatment.

More information

Other relevant information is not available.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

The substance is non-flammable. May be corrosive to metals. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents. Absorb spillage to prevent material damage.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale vapours and aerosols. Prevent contact with skin and eyes. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Keep only in original packaging. Keep container tightly closed.

Storage class

8B - Non-combustible corrosive substances

7.3. Specific end use(s)

not available

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Czech Republic

Government Regulation 246/2018 Coll.

Substance name (component)	Type	Value	Conversion for ppm	Note
hydrochloric acid (CAS: 7647-01-0)	PEL	8 mg/m ³	0,679	irritating to mucous membranes (eyes, respiratory system) and skin
	NPK-P	15 mg/m ³	0,679	

Austria

BGBI. II Nr. 254/2018

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	MAK daily mean	8 mg/m ³	
	MAK daily mean	5 ppm	
	MAK short-term values	15 mg/m ³	
	MAK short-term values	10 ppm	

Belgium

Occupational exposure limits

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8h	8 mg/m ³	
	8h	5 ppm	
	Short time value	15 mg/m ³	
	Short time value	10 ppm	

Bulgaria

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)		8 mg/m ³	Chemical agents for which limit values have been set in the air in the working environment for the European Community.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

Bulgaria

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)		15 mg/m ³	Chemical agents for which limit values have been set in the air in the working environment for the European Community.

Croatia

OG 91/2018

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	GVI	8 mg/m ³	
	GVI	5 ppm	
	KGVI	15 mg/m ³	
	KGVI	10 ppm	

Denmark

BEK No. 1458 of 13/12/2019

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8h	8 mg/m ³	L means that the limit value is a ceiling that can not be exceeded at any time.
	8h	5 ppm	

Estonia

Government of the Republic Regulation No. 293 of 18 September 2001.

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	Limit value	8 mg/m ³	
	Limit value	5 ppm	
	Short term exposure	15 mg/m ³	
	Short term exposure	10 ppm	

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	OEL 8 hours	8 mg/m ³	
	OEL 8 hours	5 ppm	

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	OEL 15 minutes	15 mg/m ³	
	OEL 15 minutes	10 ppm	

Finland

HTP-ARVOT 538/2018

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)		7,6 mg/m ³	
		5 ppm	

France

Valeurs limites d'exposition professionnelle aux agents chimiques en France ED 984

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)		7,6 mg/m ³	
		5 ppm	

Germany

TRGS 900

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8h	3 mg/m ³	
	8h	2 ppm	
	Short	6 mg/m ³	
	Short	4 ppm	

Greece

Αρ. Φύλλου 94, 13 Μάιος 1999

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	Exposure limit value	7 mg/m ³	
	Exposure limit value	5 ppm	
	Maximum Exposure Limit	7 mg/m ³	
	Maximum Exposure Limit	5 ppm	

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

Hungary

29/2018. (VIII. 29.) EMMI rendelet

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	ÁK-érték	8 mg/m ³	irritant substances (irritation of the skin, mucous membranes, eyes, or of all three), corrosive (corrosion of skin, mucous membranes, eyes, or of all three)
	CK-érték	16 mg/m ³	

Ireland

2018 Code of Practice for the Chemical Agents Regulations

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	OELV 8 hours	8 mg/m ³	
	OELV 8 hours	5 ppm	
	OELV 15 minutes	15 mg/m ³	
	OELV 15 minutes	10 ppm	

Italy

Leg. April 9, 2008, no. 81

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8 hours	8 mg/m ³	
	8 hours	5 ppm	
	Short term (15 minutes)	15 mg/m ³	
	Short term (15 minutes)	10 ppm	

Latvia

Cabinet Regulation No. 325

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	AER 8 hrs.	8 mg/m ³	

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

Latvia

Cabinet Regulation No. 325

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	AER 8 hrs.	5 ppm	
	AER Short-term (15 min)	15 mg/m ³	
	AER Short-term (15 min)	10 ppm	

Lithuania

Lithuanian hygiene standards HN 23: 2011

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	IPRD	8 mg/m ³	
	IPRD	5 ppm	
	TPRD	15 mg/m ³	
	TPRD	10 ppm	

Luxembourg

Official Journal N ° 684 of August 16, 2018

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8 hours	8 mg/m ³	
	8 hours	5 ppm	
	LECT (15 minutes)	15 mg/m ³	
	LECT (15 minutes)	10 ppm	

Malta

SUBSIDIARY LEGISLATION 424.24

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	TWA	8 mg/m ³	
	TWA	5 ppm	
	STEL	15 mg/m ³	
	STEL	10 ppm	

Netherlands

Regulation of the Secretary of State for Social Affairs and Employment of 6 December 2006, No. ARBO/A&V/2006/99971

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	TGG (8 hours)	8 mg/m ³	
	TGG (15 min)	15 mg/m ³	

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

Poland

Dz.U. 2018 poz. 1286

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	NDS	5 mg/m ³	
	NDSP	10 mg/m ³	

Portugal

DECREE LAW No. 24/2012 of 06-02-2012

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8 hours	8 mg/m ³	
	8 hours	5 ppm	
	Short duration (15 minutes)	15 mg/m ³	
	Short duration (15 minutes)	10 ppm	

Romania

Hotărâre Nr. 584/2018 din 2 august 2018

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8h	8 mg/m ³	
	8h	5 ppm	
	15min	15 mg/m ³	
	15min	10 ppm	

Slovakia

Nariadenie vlády Slovenskej republiky 33/2018

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	NPEL	8 mg/m ³	
	NPEL	5 ppm	
	NPEL	15 mg/m ³	
	NPEL	10 ppm	

Slovenia

Uradni list RS, Št. 78

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	8 hours	8 mg/m ³	Substances representing no risk to the foetus with reference to the limit values.
	8 hours	5 ppm	

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

Slovenia

Uradni list RS, Št. 78

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	KTV (15 min)	15 mg/m ³	Substances representing no risk to the foetus with reference to the limit values.
	KTV (15 min)	10 ppm	

Spain

Occupational exposure limits for chemical agents in Spain 2019

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	VLA-ED	7,6 mg/m ³	
	VLA-ED	5 ppm	
	VLA-EC	15 mg/m ³	
	VLA-EC	10 ppm	

Sweden

Hygienic limit values (AFS 2015: 7)

Substance name (component)	Type	Value	Note
hydrochloric acid (CAS: 7647-01-0)	NGV	3 mg/m ³	
	NGV	2 ppm	
	KGV	6 mg/m ³	
	KGV	4 ppm	

DNEL

hydrochloric acid

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	8 mg/m ³	Local chronic effects	
Workers	Inhalation	15 mg/m ³	Local acute effects	
Consumers	Inhalation	8 mg/m ³	Local chronic effects	
Consumers	Inhalation	15 mg/m ³	Local acute effects	

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	acid
Melting point/freezing point	-35 °C
Boiling point or initial boiling point and boiling range	57 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	<1 (undiluted)
Kinematic viscosity	data not available
Solubility in water	soluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Form	liquid
data not available	

9.2. Other information

none

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

SECTION 10: Stability and reactivity

10.1. Reactivity

The substance is non-flammable.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

The product is stable under normal conditions.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents. Thereby a dangerous exothermic reaction will be prevented. May be corrosive to metals.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide, heavy smoke, hydrogen chloride and nitrogen oxides are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the substance.

Acute toxicity

Based on available data the classification criteria are not met.

hydrochloric acid

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC ₅₀	3124 ppm	1 hour	Rat	
Inhalation	LC ₅₀	1108 ppm	1 hour	Mouse	
Oral	LC ₅₀	900 mg/kg		Rabbit	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes severe skin burns and eye damage.

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.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date 11th January 2017
Revision date 02nd November 2021 Version 5.0

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - 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

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Based on available data the classification criteria are not met.

hydrochloric acid

Parameter	Value	Time of exposure	Species	Environment
LC ₅₀	862 mg/l		Fishes (Leuciscus idus)	

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

Data not available.

12.4. Mobility in soil

Data not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

Data not available.

12.7. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

20 01 14 Acids *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1789

14.2. UN proper shipping name

HYDROCHLORIC ACID

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

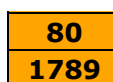
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



C1

8+hazardous for the environment



SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

Road transport - ADR

Special provisions	520
Limited quantities	1 L
Excepted quantities	E2

Packaging

Packing instructions	P001, IBC02
Mixed packing provisions	MP15

Portable tanks and bulk containers

Guidelines	T8
Special provisions	TP2

ADR tank

Tank code	L4BN
Vehicles for tank carriage	AT
Transport category	2
Tunnel restriction code	(E)

Railway transport - RID

Special provisions	520
--------------------	-----

Packaging

Packing instructions	P001, IBC02
Mixed packing provisions	MP15

Portable tanks and bulk containers

Guidelines	T8
Special provisions	TP2

RID Tanks

Tank code	L4BN
Transport category	2

Air transport - ICAO/IATA

Packaging instructions for limited amount	Y840
Packaging instructions passenger	851
Cargo packaging instructions	855

Marine transport - IMDG

EmS (emergency plan)	F-A, S-B
----------------------	----------

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

15.2. Chemical safety assessment

not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

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.

Guidelines for safe handling used in the safety data sheet

P260	Do not breathe fume/vapours/spray.
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.
P310	Immediately call a doctor.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
AGW	Occupational Exposure Limits
AK	Acceptable exposure limit
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MAK	Maximum workplace concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MK	Maximum concentration
NDS	Maximum admissible concentration
NDSch	Maximum admissible short-term concentration
NPEL	The highest acceptable exposure limit
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Eye Irrit.	Eye irritation
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 5.0 replaces the SDS version from 04. 11. 2020. Changes were made in sections 2, 8, 12, 13 and 16.

More information

Classification procedure - calculation method.

Statement

SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as
amended

Hydrochloric acid 34-37%

Creation date	11th January 2017	Version	5.0
Revision date	02nd November 2021		

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.