

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 08.04.2022

DASITGROUP

CARLO ERF

Version number 2

Revision: 08.04.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Molecular formula: H2O • Structure formula: HOH • Trade name: Hydrochloric acid 13-16% • SDS number: CH5031 · Application of the substance / the mixture Chemicals products for laboratory · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: CARLO ERBA REAGENTS Chaussée du Vexin Parc d'Affaires des Portes - BP616 27106 VAL DE REUIL Cedex Téléphone: +33 (0)2 32 09 20 00 Télécopie: +33 (0)2 32 09 20 20 • Further information obtainable from: Q.A / Normative email: MSDS CER-SDS@cer.dgroup.it · 1.4 Emergency telephone number: Ireland - Tel: 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel : 112 National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service) National Poisons Information Service +44 121 507 4123 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008

corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

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

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

(Contd. on page 2)

GB



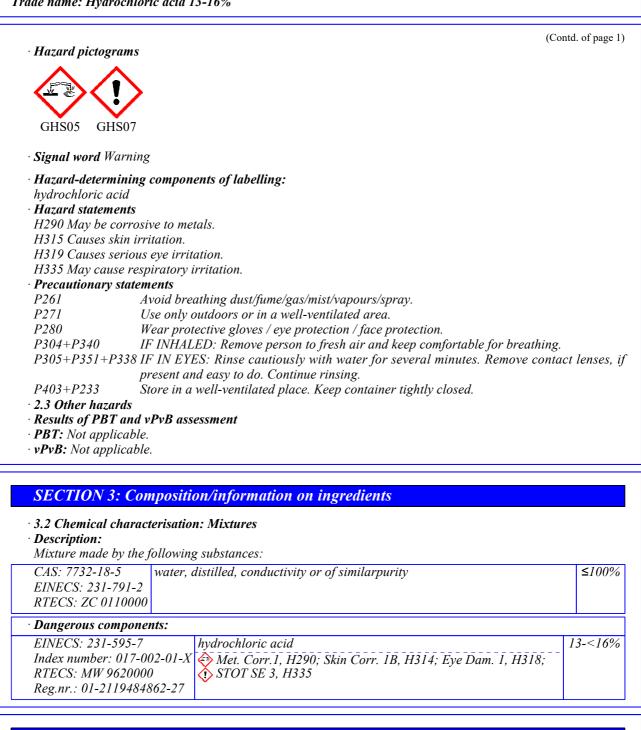
Printing date 08.04.2022

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

Revision: 08.04.2022

Version number 2

Trade name: Hydrochloric acid 13-16%



SECTION 4: First aid measures

• 4.1 Description of first aid measures

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse. If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.



Printing date 08.04.2022

Version number 2

Revision: 08.04.2022

Trade name: Hydrochloric acid 13-16%

 $(Contd. \ of \ page \ 2)$

Seek immediate medical advice.

• After swallowing:

Call for a doctor immediately.

Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- +4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- Protective equipment: Do not inhale gases in case or fire or combustion.
- · Additional information Keep receptacles cool with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

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.

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation. Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Dilute with plenty of water after collecting the liquid.

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

· 6.3 Methods and material for containment and cleaning up:

Collect the liquid with vacuum in a suitable container and absorb the remainder with a porous material (diatomite, acid binders, universal binders, etc).

- Ensure adequate ventilation.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · Information about fire and explosion protection: The product is not flammable.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles:
- Provide acid-resistant floor.
- Provide floor trough without outlet.

Use only receptacles specifically permitted for this substance/product.

• Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).

(Contd. on page 4)



Printing date 08.04.2022

Page 4/9

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

Version number 2

Revision: 08.04.2022

Trade name: Hydrochloric acid 13-16%

(Contd. of page 3)

• Further information about storage conditions: Protect from frost.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.

Do not inhale dust / smoke / mist.

- Avoid contact with the eyes and skin.
- Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.



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.

Suitable respiratory protective device recommended in case of leakages or handling in open devices. Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

Rubber gloves

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures. • 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.

For the permanent contact gloves made of the following materials are suitable:

The penetration time has to be at least 480 minutes Butyl rubber, BR Recommended thickness of the material: ≥ 0.5 mm Fluorocarbon rubber (Viton) Recommended thickness of the material: ≥ 0.4 mm Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.35 mm PVC gloves

(Contd. on page 5)



Revision: 08.04.2022

Printing date 08.04.2022

Version number 2

Trade name: Hydrochloric acid 13-16%

(Contd. of page 4)

Recommended thickness of the material: ≥ 0.5 mm · *Eye protection:*



Tightly sealed goggles

· Body protection: Protective work clothing

Limitation and supervision of exposure into the environment

In case of unintended release of the product: See section 6 of the Safety Data Sheet.

· Risk management measures Keep good industrial hygiene.

9.1 Information on basic physical and c	hemical properties	
Molecular weight	18.02 g	
Appearance:		
Form:	Fluid	
Colour:	Colourless	
Odour:	Pungent	
Odour threshold:	Not determined.	
pH-value at 20 °C:	<3	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range		
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Vapour pressure (2) at 50 °C:	123 hPa	
Density at 20 °C:	1.074 g/cm^3	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic at 20 °C:	0.952 mPas	
Kinematic:	Not determined.	
Solvent separation test:		
Water:	85.0 %	
Solids content:	0.0 %	
9.2 Other information	No further relevant information available.	

(Contd. on page 6)

GE



Printing date 08.04.2022

Version number 2

Revision: 08.04.2022

Trade name: Hydrochloric acid 13-16%

(Contd. of page 5)

SECTION 10: Stability and reactivity

· 10.1 Reactivity See 10.3

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

• 10.3 Possibility of hazardous reactions

Reacts with various metals.

Corrosive action on metals.

Reacts dangerously with alkali (lyes) or amines in bulk.

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: Metals

· 10.6 Hazardous decomposition products: Hydrogen chloride (HCl)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation

Strong irritant with the danger of severe eye injury.

Irritating effect.

Causes serious eye irritation.

· Inhalation:

Harmful if inhaled. May cause respiratory tract irritation.

May cause respiratory irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Target organ information
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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
- 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · Method
- Ecological information Not available
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

(Contd. on page 7)

GB



Printing date 08.04.2022

Version number 2

Revision: 08.04.2022

Trade name: Hydrochloric acid 13-16%

(Contd. of page 6)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· 12.5 Results of PBT and vPvB assessment

• *PBT*: Not applicable.

• **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processors for recycling or safe disposal.

· Uncleaned packaging:

The containers and packaging materials contaminated with dangerous substances or preparations, have the same treatment of products.

Directive 94/62/EC of the European Parliament and the Council of 20 December 1994 on packaging and packaging waste.

· Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number · ADR/RID, IMDG, IATA	UN1789
\cdot 14.2 UN proper shipping name	
· ADR/RID	1789 HYDROCHLORIC ACID solution
·IMDG	HYDROCHLORIC ACID solution
·IATA	Hydrochloric acid solution
· 14.3 Transport hazard class(es)	
· ADR/RID	
e e e e e e e e e e e e e e e e e e e	
· Class	8 (C1) Corrosive substances.
· Label	8
· IMDG, IATA	
· Class	8 Corrosive substances.
· Label	8
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	111



Printing date 08.04.2022

Version number 2

Revision: 08.04.2022

Trade name: Hydrochloric acid 13-16%

	(Contd. of page
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	Strong acids
Stowage Category	C .
Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
	SG49 Stow "separated from" SGG6-cyanides
14.7 Transport in bulk according to Annex II of	f
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR/RID	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1789 HYDROCHLORIC ACID SOLUTION, 8, III

SECTION 15: Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

hydrochloric acid

· SARA Section 313 (specific toxic chemical listings)

hydrochloric acid

· Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· Chemical safety assessment

• Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

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

 \cdot Other regulations, limitations and prohibitive regulations 0.0 g/l

0.00~%

• Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)

GB



Printing date 08.04.2022

Version number 2

Revision: 08.04.2022

Trade name: Hydrochloric acid 13-16%

(Contd. of page 8)

	ormation is based on our present knowledge. However, this shall not constitute a guarantee for an product features and shall not establish a legally valid contractual relationship.
	t phrases
	ay be corrosive to metals.
	uses severe skin burns and eye damage.
	uses serious eye damage.
	ay cause respiratory irritation.
	nent issuing SDS: Q.A./Normative
	ations and acronyms:
	ord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning t
	nal Carriage of Dangerous Goods by Road) Pernational Maritime Code for Dangerous Goods
	rnational Air Transport Association
	bally Harmonised System of Classification and Labelling of Chemicals
	European Inventory of Existing Commercial Chemical Substances
	European List of Notified Chemical Substances nical Abstracts Service (division of the American Chemical Society)
	istent, Bioaccumulative and Toxic
	bstances of Very High Concern
	Persistent and very Bioaccumulative
	rnational Maritime Oragnization
	1: Corrosive to metals – Category 1 1B: Skin corrosion/irritation – Category 1B
	2: Skin corrosion/irritation – Category 2
	1: Serious eye damage/eye irritation – Category 1
	2: Serious eye damage/eye irritation – Category 2
	3: Specific target organ toxicity (single exposure) – Category 3
Sources	in (EC) No 1007/2006 of the Environment Provident of the Committee of the
	ion (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006, G
	in latest valid version.
	ion (EC) N° 1272/2008 of the European Parliament and of the Council of 16 December 2008, G
,	the latest valid version.
	Harmonized System, GHS
	D, IMDG, IATA
	n : an open chemistry database at the National Institutes of Health (NIH)
	European CHemicals Agency
	: Information system on hazardous substances of the German Social Accident Insurance
* Data c	ompared to the previous version altered.