

acc. to Regulation (EC) No. 1907/2006 (REACH)

# Hydrochloric acid Standard volumetric solution 0.1 M (0.1 N)

Version number: GHS 1.0 Date of compilation: 2023					
SECT	SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1	Product identifier				
	Trade name	Hydrochloric acid Standard volumetric solu- tion 0.1 M (0.1 N)			
	Alternative number(s)	LC-4579			
1.2 Relevant identified uses of the substance or mixture and uses advised against					
	Relevant identified uses	General use			
1.3	Details of the supplier of the safety data sheet				
	NeoFroxx GmbH Marie-Curie-Str. 3 D-64683 Einhausen Germany				
	Telephone: +49 (6251) 989 24 - 0 e-mail: info@neofroxx.com Website: neofroxx.com				
	e-mail (competent person)	info@neofroxx.com (neoFroxx GmbH)			
1.4	Emergency telephone number				
	Emergency information service	This number is only available during the follow- ing office hours: Mon-Fri 9 a.m 5 p.m.			

Poison centre					
Country	Name	Postal code/ city	Telephone	Telefax	Opening hours
United Kingdom	National Poisons Information Service		111		Mon - Fri 09:00 AM - 05:00 PM

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

# **Classification acc. to GHS**

Section	Hazard class		Hazard class and cat- egory	Hazard state- ment
2.16	substance or mixture corrosive to metals	1	Met. Corr. 1	H290

For full text of abbreviations: see SECTION 16.

# 2.2 Label elements

# Labelling

- Signal word warning
- Pictograms

GHS05

- Hazard statements

H290

May be corrosive to metals.



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- Precautionary statements			
P234	Keep only in original packaging.		
P390	Absorb spillage to prevent material damage.		
P406	Store in a corrosion-resistant container with a resistant inner liner.		

# 2.3 Other hazards

# **Results of PBT and vPvB assessment**

Does not contain a PBT-/vPvB-substance in a concentration of  $\ge 0,1\%$ .

# **Endocrine disrupting properties**

Does not contain an endocrine disruptor (EDC) in a concentration of  $\ge 0,1\%$ .

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

Not relevant (mixture)

# 3.2 Mixtures

# Description of the mixture

This product does not meet the criteria for classification in any hazard class according to GHS.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

# **Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### **Following skin contact**

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### **Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none



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# SECTION 5: Firefighting measures

# 5.1 Extinguishing media

# Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

# Unsuitable extinguishing media

Water jet

# 5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

# 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

Remove persons to safety.

# For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

# 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

# 6.3 Methods and material for containment and cleaning up

# Advice on how to contain a spill

Covering of drains

# Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

# Appropriate containment techniques

Use of adsorbent materials.

# Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

# 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.



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# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

## Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

## Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

# 7.2 Conditions for safe storage, including any incompatibilities

## Managing of associated risks

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

# 7.3 Specific end use(s)

See section 16 for a general overview.

## **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

**Occupational exposure limit values (Workplace Exposure Limits)** this information is not available

#### 8.2 Exposure controls

# **Appropriate engineering controls**

General ventilation.

# Individual protection measures (personal protective equipment)

#### **Eye/face protection**

Wear eye/face protection.

#### **Skin protection**

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

#### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Physical state	liquid	
Colour	not determined	
Odour	characteristic	
Melting point/freezing point	not determined	
Boiling point or initial boiling point and boiling range	not determined	
Flammability	non-combustible	
Lower and upper explosion limit	not determined	
Flash point	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not relevant	
pH (value)	not determined	
Kinematic viscosity	not determined	
Solubility(ies)		
Water solubility	miscible in any proportion	

# Partition coefficient

Partition coefficient n-octanol/water (log value) this information is not available
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Vapour pressure	not determined
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# Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)	
Other information		

# 9.2 Other information

Information with regard to physical hazard classes	there is no additional information
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Date of compilation: 2023-09-05

Other safety characteristics		
Miscibility	Completely miscible with water.	
Liquid content	0 %	
Solid content	0 %	

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

# 10.2 Chemical stability

See below "Conditions to avoid".

# **10.3** Possibility of hazardous reactions

No known hazardous reactions.

# 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

## 10.5 Incompatible materials

There is no additional information.

# 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

## **Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## **Classification acc. to GHS**

# **Acute toxicity**

Shall not be classified as acutely toxic.

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

## Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

## **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

# Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

# Carcinogenicity

Shall not be classified as carcinogenic.



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# **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

# Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

# Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

## **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

# 11.2 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

# 12.2 Persistence and degradability

## **Biodegradation**

The relevant substances of the mixture are readily biodegradable.

# 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

# 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq$  0,1%.

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

#### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

# Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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Versio	n number: GHS 1.0	Date of compilation: 2023-09-05		
SECT	TION 14: Transport information			
14.1	UN number or ID number			
	ADR/RID	UN 1789		
14.2	UN proper shipping name			
	ADR/RID	HYDROCHLORIC ACID		
14.3	Transport hazard class(es)			
	ADR/RID	8		
14.4	Packing group			
	ADR/RID	III		
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations		
14.6	<b>Special precautions for user</b> Provisions for dangerous goods (ADR) should	d be complied within the premises.		
14.7	Maritime transport in bulk according	to IMO instruments		
	The cargo is not intended to be carried in bu	lk.		
	Information for each of the UN Mode			
	Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Additional information			
	Classification code	C1		
	Danger label(s)	8		
	Special provisions (SP)	520		
	Excepted quantities (EQ)	E1		
	Limited quantities (LQ)	5 L		
	Transport category (TC)	3		
	Tunnel restriction code (TRC)	E		
	Hazard identification No	80		
	Emergency Action Code	2R		
	ional Carriage of Dangerous Goods by Rail (RID) -			
	Classification code	C1		
	Danger label(s)	8		
	Special provisions (SP)	520		
	Excepted quantities (EQ)	E1		
	Limited quantities (LQ)	5 L		



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Version nu	umber: GHS 1.0		Date of compilation: 2023-09-05
Т	ransport category (TC)	3	
н	lazard identification No	80	
I	nternational Maritime Dangerous Goods Code ( not assigned nternational Civil Aviation Organization (ICAO-2 not assigned		
SECTIO	N 15: Regulatory information		
	Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)		

# Deco-Paint Directive VOC content 0 % Industrial Emissions Directive (IED) VOC content 0 %

# 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
ΙΑΤΑ	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

# Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).



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# Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

# List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H290	May be corrosive to metals.

# Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.