

Safety Data Sheet

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According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

Identification of the substance/mixture and of the company/undertaking

1.1 **Product identifier**

1.

Product code	: GS1085
Product name	: Hydrochloric acid 1%
CAS number	: 7647-01-0
EINECS	: 231-595-7
Physical form	: liquid, substance
REACH	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

PC21: Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company name	: Glentham Life Sciences Ltd	Telephone		+44 (0) 1225 667 798
	Unit 5 Leafield Way	Fax	:	+44 (0) 2033 978 909
	Corsham SN13 9SW	Email	:	info@glentham.com
	United Kingdom	Web	:	www.glentham.com

1.4 **Emergency telephone number**

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 - 17.00 GMT) number

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

H315	Skin Irr. 2
H319	Eye Irr. 2A

2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

Pictograms



Signal words	Warning
Hazard statements	
H315	Causes skin irritation
H319	Causes serious eye irritation
Precautionary statemen	ts
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P264	Do not breathe fume.
Other hazards	
PBT	

This substance is not identified as a PBT substance.

Composition/information on ingredients 3.0

3.1 Substances

2.3

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4. 4.1

4.2

4.3

5.2

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Name		Identifier	%	Classification
Hydrochloric acid 1%		CAS: 7647-01-0 EC: 231-595-7 REACH: Not applicable		H315, Skin Irr. 2 H319, Eye Irr. 2A
First aid measures				
Description of first aid	measures			
Skin contact	Consult a doctor. Remove Wash immediately with ple			wear immediately unless stuck to skin.
Eye contact	Consult a doctor. Bathe th	e eye with running wa	ater for 15 mi	inutes.
Ingestion	Consult a doctor. Wash ou	ut mouth with water.		
Inhalation	Consult a doctor. Remove	casualty from expos	ure ensuring	one's own safety whilst doing so.
Most important sympto	oms and effects, both acute	e and delayed		
Skin contact	There may be irritation and	d redness at the site o	of contact.	
Eye contact	The eyes may water profu	sely. There may be ir	ritation and r	edness.
Ingestion	There may be soreness a	nd redness of the mo	uth and throa	ıt.
Inhalation	Exposure may cause coug tightness in the chest.	ghing or wheezing. Th	iere may be i	irritation of the throat with a feeling of
Delayed / immediate effects	Immediate effects can be	expected after short-t	erm exposur	e.
Indication of any imme	diate medical attention and	special treatment n	eded	
mmediate / special treatment	t			
Eve bathing equipment	should be available on the	premises		

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

Special hazards arising from the substance or mixture

Exposure hazards

In combustion emits toxic fumes.

5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not create dust. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Do not discharge into drains or rivers.

Methods and material for containment and cleaning up

Clean-up procedures

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

6.3

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Refer to section 8 of SDS.

7. Handling and storage

7.1 Precautions for safe handling

Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Do not handle in a confined space. Ensure there is sufficient ventilation of the area.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Avoid contact with water or humidity. Keep container tightly closed. Store in cool, well ventilated area.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

Substance (CAS)	Control Parameter	Value	Notes	Source
Hydrogen chloride (7647-01-0)	Long-term Exposure Limit (ppm)	8		2000/39/EC
``	Long-term Exposure Limit (mg m ⁻³)	5		
	Short-term Exposure Limit (ppm)	15		
	Short-term Exposure Limit (mg m ⁻³)	10		
	Long-term Exposure Limit (ppm)	1		UK HSE EH40/200
	Long-term Exposure Limit (mg m ⁻³)	2		
	Short-term Exposure Limit (ppm)	5		
	Short-term Exposure Limit (mg m ⁻³)	8		
Hydrogen chloride (gas and aerosol mists)	Long-term Exposure Limit (ppm)	8		2000/39/EC
(7647-01-0)	Long-term Exposure Limit (mg m ⁻³)	5		
	Short-term Exposure Limit (ppm)	15		
	Short-term Exposure Limit (mg m ⁻³)	10		
	Long-term Exposure Limit (ppm)	1		UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	2		
	Short-term Exposure Limit (ppm)	5		
	Short-term Exposure Limit (mg m ⁻³)	8		
xposure controls				

Respiratory protection	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.

Hand protection Protect

8.2

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Skin protection	Protective clothing.	
Physical and chemi	cal properties	
Information on basi	c physical and chemical prope	erties
Physical state		Liquid
Colour		Colourless
Odour	,	No data available.
Melting point/Free		-114 °C -85 °C
Flammability	I boiling point/boiling range	No data available.
Lower/Upper exp	losion limit	No data available.
Flash Point		No data available.
Auto-ignition tem		No data available.
Decomposition te	mperature	No data available.
pH Kinomatia viagosi	ħ/	No data available. No data available.
Kinematic viscosi Solubility	ty	No data available.
	nt n-octanol/water	No data available.
Vapour pressure		No data available.
Density/relative d		1.096
Relative vapour p		No data available.
Particle character Other information	TISTICS	No data available.
No data available.		
Stability and reactiv	ity	
Reactivity		
-	mended transport or storage co	onditions
Chemical stability		
Stable under normal	conditions.	
Possibility of hazard	dous reactions	
Hazardous reactions		
Decomposition may transport or storage		ns or materials listed below. Hazardous reactions will not occur under normal
Conditions to avoid		
Heat.		
Incompatible materi	als	
Materials to avoid	e ovidioina ogonto	
Strong acids. Strong	oxidising agents.	
Toxicological inform		
Information on toxic	cological effects	
Acute toxicity		
Hydrogen chloride		
1 hr LC50 Rat (Inha	lation): 3124 ppm	
1 hr LC50 Mouse (Ir	halation): 1108 ppm	
LD50 Mouse (IP): 14	149 mg/kg	
LD50 Rabbit (Oral):		
LD50 Rat (Oral): 700		
	gas and aerosol mists)	
	- /	

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	1 hr LC50 Rat (Inhalat	ion): 3124 ppm
	1 hr LC50 Mouse (Inha	
	LD50 Mouse (IP): 144	
	LD50 Rabbit (Oral): 90	
b)	LD50 Rat (Oral): 700 r Skin corrosion/irritatio	
b)	Skin corrosion/irritation	
c)	Serious eye damage/ii	ritation
	Serious eye damage/e	ye irritation (Category 2A)
d)	Respiratory or skin se No data available.	nsitisation
e)	Germ cell mutagenicit No data available.	у
f)	Carcinogenicity No data available.	
g)	Reproductive toxicity	
	No data available.	
h)	STOT-single exposure	
	No data available.	
i)	STOT-repeated exposition No data available.	ure
j)	Aspiration hazard	
1)	No data available.	
	Symptoms / routes of	exposure
	Skin contact	•
	Skill Collact	There may be irritation and redness at the site of contact.
	Eye contact	The eyes may water profusely. There may be irritation and redness.
	Ingestion	There may be soreness and redness of the mouth and throat.
	Inhalation	Exposure may cause coughing or wheezing. There may be irritation of the throat with a feeling of tightness in the chest.
	Delayed / immediate effects	Immediate effects can be expected after short-term exposure.
	Other information	No data available.
11.2	Information on other h	nazards
11.2.1	Endocrine disrupting pro	operties
	This product does not	contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.
11.2.2	Other information	
	No additional informati	on
12.	Ecological information	1
12.1	Toxicity	
	No data available.	
12.2	Persistence and degra	adability
	Biodegradable.	
12.3	Bioaccumulative pote	ntial
	No bioaccumulation po	otential.
12.4	Mobility in soil	
	No data available.	
12.5	Results of PBT and vF	PvB assessment



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This substance is not identified as a PBT substance.

^{12.6} Endocrine disrupting properties

This substance is not identified as having endocrine disrupting properties

^{12.7} Other adverse effects

No data available.

13. Disposal considerations

13.1 Waste treatment methods

Disposal operations

Transfer to a suitable container and arrange for collection by specialised disposal company.

NB

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport information

This product does not require a classification for transport.

15. Regulatory information

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

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

Authorisations/Restrictions

Regulation (EC) 1907/2006, REACH, Annex XIV list of substances subject to authorisation:	No data available.
Regulation (EC) 1907/2006, REACH, Annex XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances:	No data available.
Regulation (EC) 1005/2009 on substances that deplete the ozone layer:	No data available.
Regulation (EC) 850/2004 on persistent organic pollutants, amended by (EU) No 2019/1021:	No data available.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16. Other information

H-Statement Full Texts

H315	Causes skin irritation
H319	Causes serious eye irritation
Abbreviations Full	Texts
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP	As low as is reasonably practicable
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulations
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number
EC50	Effective Concentration 50%
EILINCS	European List of Notified Chemical Substances
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System
HSE	Health & Safety Executive UK
IATA	International Air Transport Association
IM	Intramuscular
IMDG	The International Maritime Dangerous Goods Code
IP	Intraperitoneal
IV	Intravascular



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	Lethal Dose 50%
LD50	
LOEC	Lowest Observable Effective Concentration
LTEL	Long Term Exposure Limit
NOEC	No Observable Effective Concentration
OECD	Organisation for Economic Cooperations and Development
PBT	Persistent Bioaccumulative Toxic
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC	Subcutaneous
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/878.

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.

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