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### 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	: GK2225
Product name	: Hydrochloric acid 37%
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

H290	Met. Corr. 1
H314	Skin Corr. 1B
H335	STOT SE 3
H336	STOT SE 3

#### 2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
Precautionary statemen	ts
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: wash with plenty of 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.
P310	Immediately call a POISON CENTER or doctor/physician.
P264	Do not breathe fume.
P406	Store in corrosive resistant polyethylene container with a resistant inliner.
Other hazards	

PBT

2.3

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This substance is not identified as a PBT substance.

Substances							
Name		Identifier	%	Classification			
Hydrochloric acid	37%	CAS: 7647-01-0 EC: 231-595-7 REACH: Not applicable	35%	H290, Met. Corr. 1 H314, Skin Corr. 1B H335, STOT SE 3 H336, STOT SE 3			
First aid measures							
Description of first a	aid measures						
Skin contact	still on skin. Remove	all contaminated clothes a	nd footwear	er for 10 minutes or longer if substance i immediately unless stuck to skin. ning. Wash immediately with plenty of			
Eye contact	Consult a doctor. Tra 15 minutes.	Consult a doctor. Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.					
Ingestion	Consult a doctor. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible. Wash out mouth with water.						
Inhalation	ensure the casualty s position. If unconscio	its or lies down. If unconso us, check for breathing and ossible. Consult a doctor. I	ious and bre d apply artific	ide oxygen if available. If conscious, eathing is OK, place in the recovery cial respiration if necessary. Transfer to ualty from exposure ensuring one's own			
Most important sym	ptoms and effects, both	acute and delayed					
Skin contact		Progressive ulceration will at the site of contact.	occur if trea	tment is not immediate. There may be			
Eye contact	Corneal burns may o be irritation and redn	· ·	nt damage. T	he eyes may water profusely. There ma			
Ingestion	•	d. Corrosive burns may ap e may be soreness and red	•	the lips. There may be bleeding from th mouth and throat.			
Inhalation				rritation of the throat with a feeling of h a burning sensation in the throat.			
Delayed / immediate effects	Immediate effects ca or nose.	n be expected after short-te	erm exposur	e. There may be bleeding from the mou			

#### 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

#### Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. In combustion emits toxic fumes.

#### 5.3 Advice for fire-fighters

5.2



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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 attempt to take action without suitable protective clothing - see section 8 of SDS. 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. Notify the police and fire brigade immediately. 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

6.3

Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4 Reference to other sections

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

#### Control parameters

8.1

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 <sup>-3</sup> )	5		
	Short-term Exposure Limit (ppm)	15		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	10		
	Long-term Exposure Limit (ppm)	1		UK HSE EH40/2009
	Long-term Exposure Limit (mg m <sup>-3</sup> )	2		
	Short-term Exposure Limit (ppm)	5		
	Short-term Exposure Limit (mg m <sup>-3</sup> )	8		

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Long-term Exposure Limit (ppm)	8	2000/39/EC
Long-term Exposure Limit (mg m <sup>-3</sup> )	5	
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Short-term Exposure Limit (ppm)	5	
Short-term Exposure Limit (mg m <sup>-3</sup> )	8	
	Long-term Exposure Limit (mg m <sup>-3</sup> ) Short-term Exposure Limit (ppm) Short-term Exposure Limit (mg m <sup>-3</sup> ) Long-term Exposure Limit (ppm) Long-term Exposure Limit (mg m <sup>-3</sup> ) Short-term Exposure Limit (ppm)	Long-term Exposure Limit (mg m <sup>-3</sup> )5Short-term Exposure Limit (ppm)15Short-term Exposure Limit (mg m <sup>-3</sup> )10Long-term Exposure Limit (ppm)1Long-term Exposure Limit (mg m <sup>-3</sup> )2Short-term Exposure Limit (ppm)5

#### 8.2 Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area.
Respiratory protection	Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency.
Hand protection	Protective gloves.
Eye protection	Tightly fitting safety goggles. Ensure eye bath is to hand. Safety glasses.
Skin protection	Protective clothing.

#### 9. Physical and chemical properties

9.1	Information on basic physical and chemical properties
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Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	-114 °C
Boiling point/initial boiling point/boiling range	-85 °C
Flammability	No data available.
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	1.096
Relative vapour pressure	No data available.
Particle characteristics	No data available.
they information	

#### 9.2 Other information

No data available.

#### 10. Stability and reactivity

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

#### <sup>10.3</sup> Possibility of hazardous reactions

#### Hazardous reactions

Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

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10.4	Conditions to avoid	
	Heat.	
10.5	Incompatible material	S
	Materials to avoid	
	Strong acids. Strong o	xidising agents.
11.	Toxicological information	tion
11.1	Information on toxicol	logical effects
a)	Acute toxicity	
	Hydrogen chloride	
	1 hr LC50 Rat (Inhalat	
	1 hr LC50 Mouse (Inha	
	LD50 Mouse (IP): 1449 LD50 Rabbit (Oral): 90	
	LD50 Rabbit (Oral): 90	
	Hydrogen chloride (ga	
	1 hr LC50 Rat (Inhalat	
	1 hr LC50 Mouse (Inha	
	LD50 Mouse (IP): 144	9 mg/kg
	LD50 Rabbit (Oral): 90	
	LD50 Rat (Oral): 700 r	
b)	Skin corrosion/irritatio	
	Skin corrosion/irritatior	
c)	Serious eye damage/ii	rritation
	No data available.	
d)	Respiratory or skin se	ensitisation
	No data available.	
e)	Germ cell mutagenicit	у
	No data available.	
f)	Carcinogenicity	
	No data available.	
g)	Reproductive toxicity	
	No data available.	
h)	STOT-single exposure	
	Specific target organ to	oxicity, single exposure; Respiratory tract irritation (Category 3)
i)	STOT-repeated expos	ure
	No data available.	
j)	Aspiration hazard	
	No data available.	
	Symptoms / routes of	exposure
	Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. There may be irritation and redness at the site of contact.
	Eye contact	Corneal burns may occur. May cause permanent damage. The eyes may water profusely. There may be irritation and redness.
	Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. 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. There may be shortness of breath with a burning sensation in the throat.

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	Delayed / immediate effects	Immediate effects ca or nose.	an be expected after shor	t-term exposure. There ma	ay be bleeding from the mouth			
	Other information	No data available.						
	Information on other hazards							
1 Endocrine disrupting properties								
	This product does no	t contain known or susp	pected endocrine disrupto	rs according to REACH or	r relevant EU Regulations.			
	Other information							
	No additional informa	ation						
	Ecological information	on						
	Toxicity							
	No data available.							
	Persistence and deg	radability						
	Biodegradable.							
	Bioaccumulative pot	ential						
	No bioaccumulation p	potential.						
	Mobility in soil							
	Readily absorbed into	o soil.						
	Results of PBT and v	/PvB assessment						
	This substance is not identified as a PBT substance.							
	Endocrine disrupting	g properties						
	This substance is not identified as having endocrine disrupting properties							
	Other adverse effects							
	No data available.							
	Disposal considerati	ons						
	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.							
	The user's attention i	s drawn to the possible	existence of regional or r	ational regulations regard	ling disposal.			
	Transport informatio	n						
	ADR	IMDG	ΙΑΤΑ	ADN	RID			
	14.1. UN number							
	UN1789	UN1789	UN1789	UN1789	UN1789			
	14.2. UN proper shipping name							

HYDROCHLORIC ACID	HYDROCHLORIC ACID	Hydrochloric acid	HYDROCHLORIC ACID	HYDROCHLORIC ACID
Transport document descrip	otion			
UN1789 HYDROCHLORIC ACID, 8, II	UN1789 HYDROCHLORIC ACID, 8, II	UN1789 Hydrochloric acid, 8, II	UN1789 HYDROCHLORIC ACID, 8, II	UN1789 HYDROCHLORIC ACID, 8, II

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14.3. Transport hazar	rd class(es)				
8	8	8	8	8	
B All	A A A A A A A A A A A A A A A A A A A	A A A A A A A A A A A A A A A A A A A	A Contraction of the second se	A A A A A A A A A A A A A A A A A A A	
14.4. Packing group					
II	II	II	II	II	
14.5. Environmental I	hazards				
No	No	No	No	No	

#### 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.

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		
H290	May be corrosive to metals	
H314	Causes severe skin burns and eye damage	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	

#### Abbreviations Full Texts

obreviations 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
LD50	Lethal Dose 50%
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



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REACH RID	Registration, Evaluation, Authorisation and Restriction of Chemicals 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.

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