GX3822 v3.0



Safety Data Sheet

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

	According to REACH Regula	According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878			
1.	Identification of the substan	ce/mixture and of the company	/undertaking		
1.1	Product identifier				
	Product name:HyoCAS number:764EINECS:231Physical form:liquREACH:A re are		e annual tonna	ige	nce as the substance or its uses does not require a registration or eadline.
1.2 Relevant identified uses of the substance or mixture and uses advised against		nst			
	PC21: Laboratory chemicals.				
1.3	Details of the supplier of the	safety data sheet			
	Uni Cor	ntham Life Sciences Ltd t 5 Leafield Way sham SN13 9SW ted Kingdom	Telephone Fax Email Web	:	+44 (0) 1225 667 798 +44 (0) 2033 978 909 info@glentham.com www.glentham.com
1.4	Emergency telephone numb	er			
	Emergency telephone : NH number	S Direct 111 (UK, 24 hours), 11	2 (EU, 24 Hou	ırs),	, +44 (0) 1225 667 798 (09.00 – 17.00 GMT)
2.	Hazards identification				
2.1	Classification of the substan	ssification of the substance or mixture			
	Classification under CLP according	to (EC) 1272/2008			
	H290 Met. C	Corr. 1			
2.2	Label elements				
	Label elements under CLP accordin	g to (EC) 1272/2008			
	Pictograms	GHS05			
	Signal words Hazard statements	Warning			
	H290	May be corrosive to metals			
	Precautionary statements P390 P406	Absorb spillage to prevent ma Store in corrosive resistant po			iner with a resistant inliner.
2.3	Other hazards				
	РВТ This substance is not identifie	ed as a PBT substance.			
3.0	Composition/information on	ingredients			
3.2	Mixtures	•			

Name	Identifier	%	Classification	
Hydrochloric acid	CAS: 7647-01-0 EC: 231-595-7 REACH: Not applicable	2 - 3	H290, Met. Corr. 1 H314, Skin Corr. 1B H335, STOT SE 3	

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4. First aid measures

4.1 Description of first aid measures

Skin contact	Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Remove all contaminated clothes and footwear immediately unless stuck to skin. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact	Transfer to hospital for specialist examination. Bathe the eye with running water for 15 minutes.
Ingestion	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	If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If conscious, ensure the casualty sits or lies down. 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. Remove casualty from exposure ensuring one's own safety whilst doing so.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
Eye contact	Corneal burns may occur. May cause permanent damage.
Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose.
Inhalation	Exposure may cause coughing or wheezing. There may be shortness of breath with a burning sensation in the throat.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting. Eye 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. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Corrosive. 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 attempt to take action without suitable protective clothing - see section 8 of SDS. 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.

6.2 Environmental precautions

Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Clean-up procedures

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.

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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

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 EH40/200
	Long-term Exposure Limit (mg m ⁻³)	2		
	Short-term Exposure Limit (ppm)	5		
	Short-term Exposure Limit (mg m ⁻³)	8		
xposure controls				
Engineering measures Ens	ure there is sufficient ventilation of the area	۹.		

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

8.2

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	Hand protection	Protective gloves.			
	Eye protection	Tightly fitting safety goggles	s. Ensure eye bath is to hand.		
	Skin protection	Protective clothing.			
	Physical and chemic	cal properties			
	Information on basic	c physical and chemical proper	ties		
	Physical state Colour Odour Melting point/Free Boiling point/initia Flammability Lower/Upper expl Flash Point Auto-ignition temp Decomposition temp H Kinematic viscosi Solubility Partition coefficien Vapour pressure Density/relative do Relative vapour p	ezing point I boiling point/boiling range losion limit operature mperature ty nt n-octanol/water ensity ressure	Liquid Colourless No data available. -114 °C -85 °C No data available. No data available.		
	Particle character	istics	No data available.		
	Other information				
	No data available.				
	Stability and reactiv	ity			
	Reactivity				
	Stable under recomr	mended transport or storage cor	nditions.		
2	Chemical stability				
	Stable under normal	conditions.			
3	Possibility of hazard	lous reactions			
	Hazardous reactions				
	Decomposition may transport or storage		s or materials listed below. Hazardous reactions will not occur under normal		
4	Conditions to avoid				
	Heat.				
5	Incompatible materi	als			
	Materials to avoid				
	Strong acids. Strong	oxidising agents.			
	Toxicological inform	nation			
1	Information on toxic	ological effects			
	Acute toxicity Hydrogen chloride 1 hr LC50 Rat (Inhal 1 hr LC50 Mouse (In LD50 Mouse (IP): 14 LD50 Rabbit (Oral): LD50 Rat (Oral): 700 Hydrogen chloride (halation): 1108 ppm l49 mg/kg 900 mg/kg			

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	1 hr LC50 Rat (Inhalat	tion): 3124 ppm
	1 hr LC50 Mouse (Inh	
	LD50 Mouse (IP): 144 LD50 Rabbit (Oral): 90	
	LD50 Rat (Oral): 700 I	
b)	Skin corrosion/irritati	
	No data available.	
c)	Serious eye damage/i	rritation
	No data available.	
d)	Respiratory or skin se	ensitisation
	No data available.	
e)	Germ cell mutagenicit No data available.	ty
Ð		
f)	Carcinogenicity No data available.	
g)	Reproductive toxicity	
	No data available.	
h)	STOT-single exposure	9
	No data available.	
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.
	Eye contact	Corneal burns may occur. May cause permanent damage.
	Ingestion	Blood may be vomited. Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose.
	Inhalation	Exposure may cause coughing or wheezing. There may be shortness of breath with a burning sensation in the throat.
	Delayed / immediate effects	Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose.
	Other information	No data available.
11.2	Information on other I	hazards
11.2.1	Endocrine disrupting pr	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 informat	ion
12.	Ecological informatio	n
12.1	Toxicity	
	No data available.	
12.2	Persistence and degra	adability
	Biodegradable.	
12.3	Bioaccumulative pote	ntial
	No bioaccumulation p	otential.
12.4	Mobility in soil	

Readily absorbed into soil.



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12.5	Results of PBT and vPvB assessment

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

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN1789	UN1789	UN1789	UN1789	UN1789
14.2. UN proper shipping na	ame			
HYDROCHLORIC ACID, SOLUTION	HYDROCHLORIC ACID, SOLUTION	Hydrochloric acid, solution	HYDROCHLORIC ACID, SOLUTION	HYDROCHLORIC ACID, SOLUTION
Transport document descri	ption			
UN1789 HYDROCHLORIC ACID, SOLUTION (HYDROCHLORIC ACID, 0.5M SOLUTION), 8, III	UN1789 HYDROCHLORIC ACID, SOLUTION (HYDROCHLORIC ACID, 0.5M SOLUTION), 8, III	UN1789 Hydrochloric acid, solution (Hydrochloric acid, 0.5M solution), 8, III	UN1789 HYDROCHLORIC ACID, SOLUTION (HYDROCHLORIC ACID, 0.5M SOLUTION), 8, III	UN1789 HYDROCHLORIC ACID, SOLUTION (HYDROCHLORIC ACID, 0.5M SOLUTION), 8, III

14.3. Transport hazard class(es)				
8	8	8	8	8
a and a second s			a a construction of the second	a statement of the stat
14.4. Packing group				
III	III	Ш	111	III
14.5. Environmental hazards				
No	Νο	Νο	Νο	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.

Authorisations/Restrictions

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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	H-Statement Full Texts				
H290	May be corrosive to metals				
H314	Causes severe skin burns and eye damage				
H335	May cause respiratory irritation				
Abbreviations Full Texts					
ADN	ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways				

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
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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