GX2445 v3.0



Safety Data Sheet

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

1.	Identification of the substance/mixture and of the company/undertaking						
1.1	1 Product identifier						
	Product code	: GX2445					

Product name	: 2-Ethoxyethanol
CAS number	: 110-80-5
EINECS	: 203-804-1
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

H226	Flam. Liq. 3
H302	Acute Tox. 4
H331	Acute Tox. 3
H360	Repr. 1B

2.2 Label elements

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

Pictograms



Signal words	Danger
Hazard statements	
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H331	Toxic if inhaled
H360	May damage fertility or the unborn child
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P261 P311	Avoid breathing dust/fume/gas/mist/vapors/spray. Call a POISON CENTER or doctor/
	6 6 i i j
P311	Call a POISON CENTER or doctor/

2.3 Other hazards

РВТ

This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

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3.1 Substances

4.

4.2

4.3

Name		Identifier	%	Classification	
2-Ethoxyethanol		CAS: 110-80-5 EC: 203-804-1 REACH: Not applicable	99.0%	H226, Flam. Liq. 3 H302, Acute Tox. 4 H331, Acute Tox. 3 H360, Repr. 1B	
irst aid measures					
escription of first a	id measures				
Skin contact	Consult a doctor. 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	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. If conscious, give half a litre of water to drink immediately. 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. Consult a doctor. Remove casualty from exposure ensuring one's own safety whilst doing so.				
lost important sym	ptoms and effects, both ac	cute and delayed			
Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There ma be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.				
	The eyes may water profusely. There may be irritation and redness. There may be severe pain.				
Eye contact	The eyes may water pi	oldsely. There may be in		• •	
Eye contact	Convulsions may occu			There may be loss of consciousness. There may be vomiting.	
-	Convulsions may occu There may be sorenes Absorption through the may occur. There may	r. There may be irritation s and redness of the mou lungs can occur causing be irritation of the throat There may be shortness	uth and throat. symptoms sin with a feeling		

Immediate / special treatment

Do not induce vomiting. Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

5.1 Extinguishing media

Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Water spray.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Highly flammable. In combustion emits toxic fumes. May form flammable / explosive dust-air mixture. Toxic.

5.3 Advice for fire-fighters

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

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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. Eliminate all sources of ignition. Evacuate the area immediately. 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. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Alert the neighbourhood to the presence of fumes or gas. Contain the spillage using bunding. 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. Absorb into dry earth or sand. Do not use equipment in clean-up procedure which may produce sparks.

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. Ensure there is exhaust ventilation of the area. Smoking is forbidden. Use non-sparking tools. 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. Ensure lighting and electrical equipment are not a source of ignition. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the immediate area. 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
2-Ethoxy ethanol (110-80-5)	Long-term Exposure Limit (ppm)	8	skin	2009/161/EU
	Long-term Exposure Limit (mg m ⁻³)	2		
	Long-term Exposure Limit (ppm)	2	Sk	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	8	5	
2-Ethoxyethanol (110-80-5)	Long-term Exposure Limit (ppm)	8	skin	2009/161/EU
(Long-term Exposure Limit (mg m ⁻³)	2	Þ	
	Long-term Exposure Limit (ppm)	2	Sk	UK HSE EH40/2005
	Long-term Exposure Limit (mg m ⁻³)	8		

8.2 Exposure controls

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Engineering measures	Ensure lighting and electrical equipment are not a source of ignition. Ensure there is exhaust ventilation of the area. 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	Impermeable gloves. Protective gloves.
Eye protection	Safety glasses with side-shields. 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

Physical state Colour Odour	Liquid Colourless No data available
Melting point/Freezing point Boiling point/initial boiling point/boiling range	-70 °C 135.6 °C
Flammability	Flammable liquid and vapour
Lower/Upper explosion limit	No data available.
Flash Point	No data available.
Auto-ignition temperature	235°C
Decomposition temperature	No data available.
рН	No data available.
Kinematic viscosity	No data available.
Solubility	99.999 g/L @ 25 °C
Partition coefficient n-octanol/water	No data available.
Vapour pressure	No data available.
Density/relative density	0.931
Relative vapour pressure	No data available.
Particle characteristics	No data available.

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 at room temperature. Stable under normal conditions.

10.3 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.

^{10.4} Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

^{10.5} Incompatible materials

Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

11. Toxicological information

^{11.1} Information on toxicological effects

a) Acute toxicity

2-Ethoxy ethanol

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	96 hr LC50 Bluegill sı LD50 Rat (Dermal): 3	unfish (Lepomis macrochirus) (Aquatic): >10000 mg/L			
	7 hr LC50 Rat (Inhala				
	LD50 Mouse (IP): 170				
	2-Ethoxyethanol				
	96 hr LC50 Bluegill si	unfish (Lepomis macrochirus) (Aquatic): >10000 mg/L			
	LD50 Rat (Dermal): 3	900 mg/kg			
	7 hr LC50 Rat (Inhala				
b)	LD50 Mouse (IP): 170 Skin corrosion/irritati				
b)	No data available.	01			
c)	Serious eye damage/	withtion			
0)	No data available.				
d)	Respiratory or skin s	ensitisation			
	No data available.				
e)	Germ cell mutagenic	ity			
	No data available.				
f)	Carcinogenicity				
	No data available.				
g)	Reproductive toxicity	,			
	2-Ethoxyethanol: Tox Reproductive toxicity	ic to Reproduction (ECHA Property of Concern) (Category 1B)			
h)	STOT-single exposur	e			
	No data available.				
i)	STOT-repeated exposion No data available.	sure			
j)	Aspiration hazard				
	No data available.				
	Symptoms / routes o	f exposure			
	Skin contact	Absorption through the skin may be fatal. Irritation or pain may occur at the site of contact. There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.			
	Eye contact	The eyes may water profusely. There may be irritation and redness. There may be severe pain.			
	Ingestion	Convulsions may occur. There may be irritation of the throat. There may be loss of consciousness. There may be soreness and redness of the mouth and throat. There may be vomiting.			
	Inhalation	Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions			
		may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be			
		loss of consciousness. There may be shortness of breath with a burning sensation in the throat.			
		There may be vomiting.			
	Delayed / immediate effects	Convulsions may occur. Delayed effects can be expected after long-term exposure. Immediate effects can be expected after short-term exposure. There may be loss of consciousness.			
	Other information	No data available.			
11.2	Information on other hazards				
11.2.1	Endocrine disrupting p	roperties			
	This product does not contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.				
11.2.2	Other information				
	No additional informa	tion			

No additional information

- 12. **Ecological information**
- 12.1 Toxicity

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No data available.

- 12.2 Persistence and degradability Biodegradable.
- 12.3 Bioaccumulative potential

No bioaccumulation potential.

12.4 Mobility in soil

Readily absorbed into soil.

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					
			ADN	RID					
14.1. UN number									
UN1171	UN1171	UN1171	UN1171	UN1171					
14.2. UN proper shipping name									
ETHYLENE GLYCOL MONOETHYL ETHER	ETHYLENE GLYCOL MONOETHYL ETHER	Ethylene glycol monoethyl ether	ETHYLENE GLYCOL MONOETHYL ETHER	ETHYLENE GLYCOL MONOETHYL ETHER					
Transport document descript	ion								
UN1171 ETHYLENE GLYCOL MONOETHYL ETHER (2-ETHOXYE THANOL), 3, III	UN1171 ETHYLENE GLYCOL MONOETHYL ETHER (2-ETHOXYE THANOL), 3, III	UN1171 Ethylene glycol monoethyl ether (2-Ethoxyethanol), 3, III	UN1171 ETHYLENE GLYCOL MONOETHYL ETHER (2-ETHOXYE THANOL), 3, III	UN1171 ETHYLENE GLYCOL MONOETHYL ETHER (2-ETHOXYE THANOL), 3, III					
14.3. Transport hazard class(es)								
3	3	3	3	3					
14.4. Packing group									
III	III	III	III	III					
14.5. Environmental hazards									
No	No	No	No	No					

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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		
H226	Flammable liquid and vapour	
H302	Harmful if swallowed	
H331	Toxic if inhaled	
H360	May damage fertility or the unborn child	

Abbreviations Full Texts

~'	bieviations i un	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
	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

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