GX4412 v2.0



### Safety Data Sheet

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

dentification of the substance/mixture and of the company/undertaking	
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#### 1.1 Product identifier

1.

Product code	: GX4412
Product name	: 1-Hexanethiol
CAS number	: 111-31-9
EINECS	: 203-857-0
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

#### 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
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P311	Call a POISON CENTER or doctor/
P264	Do not breathe fume.
P241	Use explosion-proof electrical equipment.
Other hererde	

#### 2.3 Other hazards

PBT

This substance is not identified as a PBT substance.

#### 3.0 Composition/information on ingredients

3.1 Substances

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		Identifier	%	Classification
1-Hexanethiol		CAS: 111-31-9 EC: 203-857-0 REACH: Not applicable	98.0%	H226, Flam. Liq. 3 H302, Acute Tox. 4 H331, Acute Tox. 3
First aid measures				
Description of first ai	id measures			
Skin contact		ontaminated clothes a	and footwear in	for 10 minutes or longer if substance is imediately unless stuck to skin. ig.
Eye contact	Consult a doctor. Transfer 15 minutes.	to hospital for specia	list examinatio	n. Bathe the eye with running water for
Ingestion	unconscious and breathing	g is OK, place in the r	ecovery position	alf a litre of water to drink immediately. I on. If unconscious, check for breathing Il as soon as possible. Wash out mouth
Inhalation	ensure the casualty sits or position. If unconscious, cl	lies down. If unconse heck for breathing an	cious and brea d apply artificia	e oxygen if available. If conscious, thing is OK, place in the recovery al respiration if necessary. Remove
Most important symr	possible. Consult a doctor		ety whilst doing	g so. Transfer to hospital as soon as
Most important symp	possible. Consult a doctor ptoms and effects, both acute Absorption through the ski	and delayed	on or pain may	
	possible. Consult a doctor <b>stoms and effects, both acute</b> Absorption through the ski be mild irritation at the site exposure.	and delayed n may be fatal. Irritati of contact. There ma	ion or pain may ay be redness o	occur at the site of contact. There may
Skin contact	possible. Consult a doctor notoms and effects, both acute Absorption through the ski be mild irritation at the site exposure. The eyes may water profu	and delayed n may be fatal. Irritati of contact. There ma sely. There may be ir here may be irritation	ion or pain may ay be redness o ritation and red of the throat.	occur at the site of contact. There may br whiteness of the skin in the area of dness. There may be severe pain. There may be loss of consciousness.
Skin contact	possible. Consult a doctor otoms and effects, both acute Absorption through the ski be mild irritation at the site exposure. The eyes may water profu Convulsions may occur. T There may be soreness ar Absorption through the lur may occur. There may be	and delayed n may be fatal. Irritati of contact. There may sely. There may be irritation here may be irritation nd redness of the mo ngs can occur causing irritation of the throat	on or pain may ay be redness ritation and red of the throat. uth and throat. g symptoms sir with a feeling	occur at the site of contact. There may br whiteness of the skin in the area of dness. There may be severe pain. There may be loss of consciousness.
Skin contact Eye contact Ingestion	possible. Consult a doctor otoms and effects, both acute Absorption through the ski be mild irritation at the site exposure. The eyes may water profu Convulsions may occur. T There may be soreness an Absorption through the lur may occur. There may be loss of consciousness. The There may be vomiting. Convulsions may occur. D	and delayed n may be fatal. Irritation of contact. There may sely. There may be irritation here may be irritation nd redness of the mo- ogs can occur causing irritation of the throat ere may be shortness elayed effects can be	ion or pain may ay be redness of ritation and red of the throat. uth and throat. g symptoms sir with a feeling s of breath with	o occur at the site of contact. There may bor whiteness of the skin in the area of dness. There may be severe pain. There may be loss of consciousness. There may be vomiting. nilar to those of ingestion. Convulsions of tightness in the chest. There may be
Skin contact Eye contact Ingestion Inhalation Delayed / immediate effects	possible. Consult a doctor otoms and effects, both acute Absorption through the ski be mild irritation at the site exposure. The eyes may water profu Convulsions may occur. T There may be soreness an Absorption through the lur may occur. There may be loss of consciousness. The There may be vomiting. Convulsions may occur. D	and delayed n may be fatal. Irritati of contact. There may sely. There may be irritation here may be irritation nd redness of the mo igs can occur causing irritation of the throat ere may be shortness elayed effects can be fer short-term expose	on or pain may ay be redness of ritation and red of the throat. g symptoms sir with a feeling s of breath with e expected afte ure. There may	y occur at the site of contact. There may or whiteness of the skin in the area of dness. There may be severe pain. There may be loss of consciousness. There may be vomiting. nilar to those of ingestion. Convulsions of tightness in the chest. There may be a burning sensation in the throat.
Skin contact Eye contact Ingestion Inhalation Delayed / immediate effects	possible. Consult a doctor otoms and effects, both acute Absorption through the ski be mild irritation at the site exposure. The eyes may water profu Convulsions may occur. T There may be soreness ar Absorption through the lun may occur. There may be loss of consciousness. The There may be vomiting. Convulsions may occur. D effects can be expected at mediate medical attention and	and delayed n may be fatal. Irritati of contact. There may sely. There may be irritation here may be irritation nd redness of the mo igs can occur causing irritation of the throat ere may be shortness elayed effects can be fer short-term expose	on or pain may ay be redness of ritation and red of the throat. g symptoms sir with a feeling s of breath with e expected afte ure. There may	y occur at the site of contact. There may or whiteness of the skin in the area of dness. There may be severe pain. There may be loss of consciousness. There may be vomiting. nilar to those of ingestion. Convulsions of tightness in the chest. There may be a burning sensation in the throat.

#### 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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#### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Eliminate all sources of ignition. 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

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

No workplace exposure limit control parameters set

#### 8.2 Exposure controls

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	Ensure eye bath is to hand. Safety glasses with side-shields. Safety glasses.
Skin protection	Protective clothing.

#### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	-81 °C
Boiling point/initial boiling point/boiling range	151 °C
Flammability	Flammable liquid and vapour
Lower/Upper explosion limit	No data available.

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Flash Point	N
Auto-ignition temperature	N
Decomposition temperature	N
pH	N
Kinematic viscosity	N
Solubility	N
Partition coefficient n-octanol/water	N
Vapour pressure	N
Density/relative density	0.
Relative vapour pressure	N
Particle characteristics	N
Other information	

No data available. 0.837 No data available. No data available.

#### 9.2 Other information

No data available.

#### 10. Stability and reactivity

#### <sup>10.1</sup> Reactivity

Stable under recommended transport or storage conditions.

#### 10.2 Chemical stability

Stable at room temperature. 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.

#### <sup>10.4</sup> Conditions to avoid

Flames. Hot surfaces. Sources of ignition. Heat.

#### <sup>10.5</sup> Incompatible materials

#### Materials to avoid

Carbon dioxide. Strong acids. Strong oxidising agents.

#### **11.** Toxicological information

11.1 Information on toxicological effects

#### a) Acute toxicity

No data available.

#### b) Skin corrosion/irritation

No data available.

- c) Serious eye damage/irritation No data available.
- d) Respiratory or skin sensitisation No data available.
- e) Germ cell mutagenicity No data available.
- f) Carcinogenicity No data available.
- g) Reproductive toxicity No data available.
- h) STOT-single exposure No data available.
- i) STOT-repeated exposure No data available.
- Aspiration hazardNo data available.

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#### 11.2 Symptoms / routes of exposure

Skin contact		skin may be fatal. Irritation site of contact. There may l		e site of contact. There may of the skin in the area of
Eye contact	The eyes may water pr	ofusely. There may be irrita	tion and redness. There	e may be severe pain.
Ingestion		r. There may be irritation of s and redness of the mouth		
Inhalation	may occur. There may	lungs can occur causing s be irritation of the throat wi There may be shortness of	th a feeling of tightness i	in the chest. There may be
Delayed / immediat effects	Convalorente may cood	r. Delayed effects can be ex d after short-term exposure		
Other information	No data available.			
Ecological inform	nation			
Toxicity				
No data available	ŀ.			
Persistence and	degradability			
Biodegradable.	0			
Bioaccumulative	potential			
No bioaccumulati	-			
Mobility in soil				
Readily absorbed	l into soil.			
Results of PBT a	nd vPvB assessment			
This substance is	not identified as a PBT substa	ance.		
Endocrine disrup	ting properties			
This substance is	not identified as having endo	crine disrupting properties		
Other adverse ef	fects			
No data available				
Disposal conside	erations			
Waste treatment	methods			
Disposal operations				
	able container and arrange for	collection by specialised d	sposal company.	
NB	en le deserve de die en en diele end		- 1	
i ne user's attenti	on is drawn to the possible exi	stence of regional or nation	ial regulations regarding	disposal.
Transport inform	ation			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN1228	UN1228	UN1228	UN1228	UN1228
14.2. UN proper shi	pping name			
MERCAPTANS	, MERCAPTANS,	Mercaptans, liquid,	MERCAPTANS,	MERCAPTANS,
LIQUID,	LIQUID,	flammable, toxic,	LIQUID,	LIQUID,
FLAMMABLE, TOXIC, N.O.S.	FLAMMABLE, TOXIC, N.O.S.	n.o.s.	FLAMMABLE, TOXIC, N.O.S.	FLAMMABLE, TOXIC, N.O.S.

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Transport document descript	ion			
UN1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (1-HEXANETHIOL), 3 (6.1), III	UN1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (1-HEXANETHIOL), 3 (6.1), III	UN1228 Mercaptans, liquid, flammable, toxic, n.o.s. (1-Hexanethiol), 3 (6.1), III	UN1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (1-HEXANETHIOL), 3 (6.1), III	UN1228 MERCAPTANS, LIQUID, FLAMMABLE, TOXIC, N.O.S. (1-HEXANETHIOL), 3 (6.1), III
14.3. Transport hazard class(	es)			
3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)	3 (6.1)
14.4. Packing group				
III	Ш	Ш	III	III
14.5. Environmental 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) 2020/787.

,	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**

n-statement i un rexts	
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H331	Toxic if inhaled
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

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EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC SDS STEL	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Long Term Exposure Limit No Observable Effective Concentration Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous Safety Data Sheet Short Term Exposure Limit
STEL	Short Term Exposure Limit
VOC vPvB	
WEL	Workplace Exposure Limits
RID SC SDS STEL VOC vPvB	Regulations Concerning the International Carriage of Dangerous Goods by Rai Subcutaneous Safety Data Sheet Short Term Exposure Limit Volatile Organic Compounds Very Persistent and Very Bioaccumulative

## This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

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