

### Safety Data Sheet

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

1.	Identification of the s	sub	ostance/mixture and of the company/undertaking
1.1	Product identifier		
	Product code	:	GK4350
	Product name	:	Thiomorpholine
	CAS number	:	123-90-0
	EINECS	:	204-660-2
	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

H314	Skin Corr. 1B
H318	Eye Dam. 1

#### 2.2 Label elements

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

#### Pictograms



Signal words	Danger
Hazard statements	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
Precautionary statements	S
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P260	Do not breathe vapors.
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

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Name		Identifier	%	Classification	
Thiomorpholine		CAS: 123-90-0 EC: 204-660-2 REACH: Not applicable	98.0%	H314, Skin Corr. 1B H318, Eye Dam. 1	
irst aid measures					
Description of first	aid measures				
Skin contact	Remove all contamina	Ũ		longer if substance is still on skin. unless stuck to skin. Transfer to hospital	
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.				
/lost important sym	ptoms and effects, both a	cute and delayed			
Skin contact	Blistering may occur.	Progressive ulceration wil	l occur if treat	ment is not immediate.	
Eye contact	Corneal burns may or	ccur. May cause permane	nt damage.		
Ingestion	Blood may be vomited mouth or nose.	d. Corrosive burns may ap	pear around t	he lips. There may be bleeding from the	

 Delayed / immediate effects
 Immediate effects can be expected after short-term exposure. There may be bleeding from the mouth or nose.

Exposure may cause coughing or wheezing. There may be shortness of breath with a burning

#### 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

Inhalation

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

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.

5.2

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#### 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.

#### 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

No workplace exposure limit control parameters set

#### 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.
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	170-175 °C
Boiling point/initial boiling point/boiling range	175 °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	1.088
Relative vapour pressure	No data available.
Particle characteristics	No data available.

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9.2	Other information
	No data available.

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### 10. Stability and reactivity

#### <sup>10.1</sup> 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.

#### 10.4 Conditions to avoid

Heat.

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

#### Materials to avoid

Strong acids. Strong oxidising agents.

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

#### 11.1 Information on toxicological effects

#### a) Acute toxicity

No data available.

- b) Skin corrosion/irritation
   Skin corrosion/irritation (Category 1B)
- c) Serious eye damage/irritation Serious eye damage/eye irritation (Category 1)
- 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.

#### 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.

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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.				
Information on other	hazards				
Endocrine disrupting p	properties				
This product does no	t contain known or suspected endocrine disruptors according to REACH or relevant EU Regulations.				
Other information					
No additional informa	tion				
Ecological information	on				
Toxicity					
No data available.					
Persistence and deg	radability				
Biodegradable.					
Bioaccumulative pot	ential				
No bioaccumulation	potential.				
Mobility in soil					
Readily absorbed into	o soil.				
Results of PBT and v	/PvB assessment				
This substance is not	t identified as a PBT substance.				
Endocrine disrupting	g properties				
This substance is not	t identified as having endocrine disrupting properties				
Other adverse effects	s				
No data available.					
Disposal considerati	ons				
Waste treatment methods					
Disposal operations					
	container and arrange for collection by specialised disposal company.				
NB					
The user's attention i	s drawn to the possible existence of regional or national regulations regarding disposal.				

#### 14. Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
UN3267	UN3267	UN3267	UN3267	UN3267
14.2. UN proper shipping nar	ne			
CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	Corrosive liquid, basic, organic, n.o.s.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
Transport document descrip	tion			
UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (T HIOMORPHOLINE), 8, III	UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (T HIOMORPHOLINE), 8, III	UN3267 Corrosive liquid, basic, organic, n.o.s. (Thiomorpholine), 8, III	UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (T HIOMORPHOLINE), 8, III	UN3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (T HIOMORPHOLINE), 8, III

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14.3. Transport haza	ard class(es)				
8	8	8	8	8	
B B B B B B B B B B B B B B B B B B B	1	a a a a a a a a a a a a a a a a a a a	a state	4	
14.4. Packing group					
III	III	III	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) 2020/878.

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		
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	

#### Abbreviations Full Texts

AI	Dievialions Full	Texts
	ADN ADR	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways 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
	IF IV	Intravascular
	LD50	l ethal 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	· · · · · · · · · · · · · · · · · · ·
	FFE	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.

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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