GE2728 v2.0

# Glentham

## 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	: GE2728
Product name	: Sodium hydroxide, 10M solution
CAS number	: 1310-73-2
EINECS	: 215-185-5
Physical form	: liquid, mixture
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. 1A

#### 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
Precautionary statements	5
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P406	Store in corrosive resistant polyethylene container with a resistant inliner.
Other hazards	

#### PBT

This substance is not identified as a PBT substance.

2.3

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Mixtures				
Name		Identifier	%	Classification
Sodium hydroxide		CAS: 1310-73-2 EC: 215-185-5 REACH: Not applicable	25-45	H290, Met. Corr. 1 H314, Skin Corr. 1A
First aid measures				
Description of first a	d measures			
Skin contact	Remove all contamin	nated clothes and footwear		longer if substance is still on skin. Inless stuck to skin. Transfer to hospita
	Il there are burns of	symptoms of poisoning.		
Eye contact			Bathe the eye	with running water for 15 minutes.
Eye contact Ingestion	Transfer to hospital Do not induce vomit is OK, place in the re	for specialist examination. E ing. Give 1 cup of water to c ecovery position. If unconsc	drink every 10 ious, check fo	with running water for 15 minutes. minutes. If unconscious and breathing r breathing and apply artificial ble. Wash out mouth with water.
	Transfer to hospital Do not induce vomit is OK, place in the re respiration if necess If breathing become ensure the casualty position. If unconsci	for specialist examination. E ing. Give 1 cup of water to o ecovery position. If unconsc ary. Transfer to hospital as s bubbly, have the casualty sits or lies down. If unconsc ous, check for breathing and	drink every 10 ious, check fo soon as possi sit and provid cious and brea d apply artificia	minutes. If unconscious and breathing r breathing and apply artificial
Ingestion	Transfer to hospital Do not induce vomit is OK, place in the re respiration if necess If breathing become ensure the casualty position. If unconscie casualty from expos	for specialist examination. E ing. Give 1 cup of water to o ecovery position. If unconso ary. Transfer to hospital as s bubbly, have the casualty sits or lies down. If unconso ous, check for breathing and ure ensuring one's own safe	drink every 10 ious, check fo soon as possi sit and provid cious and brea d apply artificia	minutes. If unconscious and breathing or breathing and apply artificial ble. Wash out mouth with water. e oxygen if available. If conscious, thing is OK, place in the recovery al respiration if necessary. Remove
Ingestion	Transfer to hospital Do not induce vomit is OK, place in the re respiration if necess If breathing become ensure the casualty position. If unconscie casualty from expos possible.	for specialist examination. E ing. Give 1 cup of water to o ecovery position. If unconso ary. Transfer to hospital as s bubbly, have the casualty sits or lies down. If unconso ous, check for breathing and ure ensuring one's own safe	drink every 10 ious, check fo soon as possi sit and provid cious and brea d apply artifici. ety whilst doin	minutes. If unconscious and breathing r breathing and apply artificial ble. Wash out mouth with water. e oxygen if available. If conscious, athing is OK, place in the recovery al respiration if necessary. Remove g so. Transfer to hospital as soon as

 Inhalation
 Exposure may cause coughing or wheezing. There may be shortness of breath with a burning sensation in the throat.

Delayed / 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

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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.

#### 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
Sodium hydroxide (1310-73-2)	Short-term Exposure Limit (mg m <sup>-3</sup> )	2		UK HSE EH40/2005

#### 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	Ensure eye bath is to hand. Tightly fitting safety goggles.
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	323 °C
Boiling point/initial boiling point/boiling range	1388 °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.

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Kinematic viscosity
Solubility
Partition coefficient n-octanol/water
Vapour pressure
Density/relative density
Relative vapour pressure
Particle characteristics

#### 9.2 Other information

No data available.

#### 10. Stability and reactivity

#### 10.1 Reactivity

Stable under recommended transport or storage conditions.

#### <sup>10.2</sup> Chemical stability

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.

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

No data available. No data available.

2.130

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

Heat.

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

#### Materials to avoid

Strong acids. Strong oxidising agents.

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

#### <sup>11.1</sup> Information on toxicological effects

#### a) Acute toxicity

Sodium hydroxide

24 hr LC100 Common carp (Cyprinus carpio) (Aquatic): 180 ppm LD50 Rabbit (Dermal): 1350 mg/kg LD50 Mouse (IP): 40 mg/kg LD50 Rat (Oral): 140-340 mg/kg

## b) Skin corrosion/irritation Skin corrosion/irritation (Category 1A)

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.
- j) Aspiration hazardNo data available.

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#### 11.2 Symptoms / routes of exposure

Skin contact	Blistering may occu	r. Progressive ulceration	will occur if treatment is n	ot immediate.			
Eye contact	Corneal burns may	occur. May cause perma	nent 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 caus sensation in the three		There may be shortness	of breath with a burning			
Delayed / immediate effects	Immediate effects c or nose.	an be expected after sho	rt-term exposure. There n	nay be bleeding from the mouth			
Other information	No data available.						
Ecological information	ation						
Toxicity							
No data available.							
Persistence and d	egradability						
Biodegradable.							
Bioaccumulative p	otential						
No bioaccumulatio	n potential.						
Mobility in soil							
Readily absorbed i	nto soil.						
Results of PBT an	d vPvB assessment						
This substance is i	not identified as a PBT su	bstance.					
Endocrine disrupt	ing properties						
This substance is i	not identified as having er	ndocrine disrupting prope	rties				
Other adverse effe	ects						
No data available.							
Disposal consider	ations						
Waste treatment n	nethods						
Disposal operations							
	ole container and arrange	for collection by speciali	sed disposal company.				
NB	n is drawn to the possible	evistence of regional or	national regulations regard	ding disposal			
		existence of regional of	national regulations regar	ung usposa.			
Transport informa	tion						
ADR	IMDG	ΙΑΤΑ	ADN	RID			
14.1. UN number							

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Transport document descr	iption						
UN1824 SODIUM HYDROXIDE SOLUTION, 8, II	UN1824 SODIUM HYDROXIDE SOLUTION, 8, II	UN1824 Sodium hydroxide solution, 8, II	UN1824 SODIUM HYDROXIDE SOLUTION, 8, II	UN1824 SODIUM HYDROXIDE SOLUTION, 8, II			
14.3. Transport hazard clas	14.3. Transport hazard class(es)						
8	8	8	8	8			
a state of the sta			8	1 1			
14.4. Packing group							
II	II	II	II	II			
14.5. Environmental hazards							
Νο	Νο	Νο	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.

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		
Α	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		
	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		



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LD50 LOEC	Lethal Dose 50% 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
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) 2020/787.

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.