GX5276 v3.0

# 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	: GX5276
Product name	: Sodium hydroxide, 2.0M 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
		- 5			5

#### 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	7 - 8	H290, Met. Corr. 1 H314, Skin Corr. 1A	
First aid measures					
Description of first a	id measures				
Skin contact		ed clothes and footwear		r 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.				
	otoms and effects, both ac	ute and delayed			
Skin contact	Blistering may occur. P	rogressive ulceration wi	ll occur if trea	tment is not immediate.	
Eye contact	Corneal burns may occ	ur. May cause permane	ent 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 construction in the throat.	oughing or wheezing. T	here may be s	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

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	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	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

#### 10.4 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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#### Symptoms / routes of exposure

Skin contact	Blistering may occ	ur. Progressive ulceration	will occur if treatment is	not immediate.
Eye contact	Corneal burns may	y occur. May cause perm	anent damage.	
Ingestion	Blood may be vom mouth or nose.	nited. Corrosive burns ma	y appear around the lips.	There may be bleeding from the
Inhalation	Exposure may cau sensation in the th		. There may be shortnes	s of breath with a burning
Delayed / immediate effects	Immediate effects or nose.	can be expected after sh	ort-term exposure. There	may be bleeding from the mouth
Other information	No data available.			
Information on other	hazards			
Endocrine disrupting p	oroperties			
This product does not	t contain known or sus	spected endocrine disrup	tors according to REACH	or relevant EU Regulations.
Other information				
No additional informa	tion			
Ecological information	on			
Toxicity				
No data available.				
Persistence and degr	radability			
Biodegradable.				
Bioaccumulative pote	ential			
No bioaccumulation p	ootential.			
Mobility in soil				
Readily absorbed into	o soil.			
Results of PBT and v	PvB assessment			
This substance is not	identified as a PBT s	ubstance.		
Endocrine disrupting	properties			
This substance is not	identified as having e	endocrine disrupting prop	erties	
Other adverse effects	6			
No data available.				
Disposal consideration	ons			
Waste treatment met	hods			
Disposal operations				
Transfer to a suitable	container and arrang	e for collection by specia	ised disposal company.	
NB				
The user's attention is	s drawn to the possibl	e existence of regional o	national regulations rega	arding disposal.
Transport information	n			
ADR	IMDG	ΙΑΤΑ	ADN	RID

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14.2. UN proper shipping n	ame			
SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION
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	ss(es)			
8	8	8	8	8
***			a contraction of the second se	8
14.4. Packing group				
11	II	II	II	II
14.5. Environmental hazarc	ls			
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		
H290	May be corrosive to metals	
H314	Causes severe skin burns and eye damage	
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	Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System 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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