

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

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product code : GE5959
 Product name : Buffer solution, pH 4.0
 CAS number : -
 EINECS : -
 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
 This product has no classification under CLP.

2.2 Label elements

Label elements under CLP according to (EC) 1272/2008
 This product has no label elements.

2.3 Other hazards

PBT
 This substance is not identified as a PBT substance.

3.0 Composition/information on ingredients

3.2 Mixtures

4. First aid measures

4.1 Description of first aid measures

Skin contact : Wash immediately with plenty of soap and water.

Eye contact : Bathe the eye with running water for 15 minutes.

Ingestion : Wash out mouth with water.

Inhalation : Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact : There may be mild irritation at the site of contact. No symptoms.

Eye contact : There may be irritation and redness. No symptoms.

Ingestion : There may be irritation of the throat. No symptoms.

Inhalation	No symptoms.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.
4.3	Indication of any immediate medical attention and special treatment needed
	Immediate / special treatment
	No data available.
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
	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
	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
	Transfer to a closable, labelled salvage container for disposal by an appropriate method. Absorb into dry earth or sand.
6.4	Reference to other sections
	Refer to section 8 of SDS.
7.	Handling and storage
7.1	Precautions for safe handling
	Handling requirements
	No data available.
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
	No data available.
	Respiratory protection
	Respiratory protection not required.
	Hand protection
	Protective gloves.

Eye protection	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	Liquid
Colour	Colourless
Odour	No data available.
Melting point/Freezing point	No data available.
Boiling point/initial boiling point/boiling range	No data available.
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.
pH	3.9 → 4.1
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	No data available.
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 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

Heat.

10.5 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

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.

j) **Aspiration hazard**
No data available.

11.2 Symptoms / routes of exposure

Skin contact	There may be mild irritation at the site of contact. No symptoms.
Eye contact	There may be irritation and redness. No symptoms.
Ingestion	There may be irritation of the throat. No symptoms.
Inhalation	No symptoms.
Delayed / immediate effects	Immediate effects can be expected after short-term exposure.
Other information	No data available.

12. Ecological information

12.1 Toxicity

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

This product does not require a classification for transport.

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: 04 Aug 2016, Entry No.: 65

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

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
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
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.