

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 : GB1588  
Product name : Phosphate buffer, 0.1M solution  
CAS number :  
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 Leaffield Way	Fax	: +44 (0) 2033 978 909
	Corsham SN13 9SW	Email	: <a href="mailto:info@glentham.com">info@glentham.com</a>
	United Kingdom	Web	: <a href="http://www.glentham.com">www.glentham.com</a>

#### 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

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Skin contact	Wash immediately with plenty of soap and water.
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Eye contact	Bathe the eye with running water for 15 minutes.
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Ingestion	Wash out mouth with water.
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Inhalation	Consult a doctor.
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#### 4.2 Most important symptoms and effects, both acute and delayed

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Skin contact	There may be mild irritation at the site of contact. No symptoms.
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Eye contact	There may be irritation and redness. No symptoms.
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Ingestion	There may be irritation of the throat. No symptoms.
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Inhalation	No symptoms.
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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

#### 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	7.35 → 7.45
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

##### Chromium (VI) compounds (as Cr)

No data available.

##### Fluorides, inorganic

No data available.

##### Acrylic acid

No data available.

##### Isocyanates, all (as -NCO) Except methyl isocyanate

No data available.

##### Aluminium alkyl compounds

No data available.

##### Aluminium salts, soluble

No data available.

##### Manganese and its inorganic compounds (as Mn)

No data available.

**MMMF (Machine-made mineral fibre) (except for refractory ceramic fibres and special purpose fibres)**

No data available.

**Molybdenum compounds (as Mo) soluble compounds, insoluble compounds**

No data available.

**Nickel and its inorganic compounds (except nickel tetracarbonyl): water-soluble nickel compounds (as Ni), nickel and water-insoluble nickel compounds (as Ni)**

No data available.

**Antimony and compounds except stibine (as Sb)**

No data available.

**Arsenic and arsenic compounds except arsine (as As)**

No data available.

**Platinum compounds, soluble (except certain halogeno-Pt compounds) (as Pt)**

No data available.

**Pentyl acetates (all isomers)**

No data available.

**Barium compounds, soluble (as Ba)**

No data available.

**Pulverised fuel ash inhalable dust respirable dust**

No data available.

**Cobalt and Cobalt compounds (as Co)**

No data available.

**Beryllium and beryllium compounds (as Be)**

No data available.

**Refractory ceramic fibres and special purpose fibres, total inhalable dust, respirable fraction**

No data available.

**Rhodium (as Rh) metal fume and dust soluble salts**

No data available.

**Silica, amorphous inhalable dust respirable dust**

No data available.

**Silver (soluble compounds as Ag)**

No data available.

**Barium (soluble compounds as Ba)**

No data available.

**Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble)**

No data available.

**Mercury and divalent inorganic mercury compounds including mercuric oxide and mercuric chloride (measured as mercury)**

No data available.

**Cadmium and cadmium compounds except cadmium oxide fume, cadmium sulphide and cadmium sulphide pigments (as Cd)**

No data available.

**Cadmium sulphide and cadmium sulphide pigments (respirable dust (as Cd))**

No data available.

**Selenium and compounds, except hydrogen selenide (as Se)**

No data available.

**Silica, respirable crystalline (respirable fraction)**

No data available.

**Indium and compounds (as In)**

No data available.

**Tellurium and compounds, except hydrogen telluride (as Te)**

No data available.

**Manganese and inorganic manganese compounds**

No data available.

**Chromium (II) compounds (as Cr)**

No data available.

**Chromium (III) compounds (as Cr)**

No data available.

**Iron salts (as Fe)**

No data available.

**Copper and compounds: dust and mists (as Cu)**

No data available.

**Cotton dust**

No data available.

**Cyanides, except HCN, cyanogen and cyanogen chloride (as Cn)**

No data available.

**Thallium, soluble compounds (as Tl)**

No data available.

**Tin compounds, inorganic except SnH<sub>4</sub>, (as Sn)**

No data available.

**Tin compounds, organic, except Cyhexatin (ISO), (as Sn)**

No data available.

**Mercury and divalent inorganic compounds including mercuric oxide and mercuric chloride (measured as mercury)**

No data available.

**Zirconium compounds (as Zr)**

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:

vPvB (Article 57e)  
 vPvB (Article 57e)  
 Toxic for reproduction (Article 57c)  
 Endocrine disrupting properties (Article 57(f) - environment)  
 Endocrine disrupting properties (Article 57(f) - environment)

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

### 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.