

Document Title:
Product:
Revision:
Former Date:

Safety Data Sheet
Focus Phosphate Buffer Solution
V1 (12.20)
01/12/2020



Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH), and 1272/2008/EC (CLP)

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product name: Focus Phosphate Buffer Solution
Product codes: 5970, 5990, 5991, 5996, 6000, 6005

1.2. Relevant identified uses of the substance or mixture and the uses advised against

pH neutraliser. No uses advised against specified.

1.3. Details of the supplier of the SDS

Supplier
Reliance Medical Ltd.
West Avenue,
Talke, Stoke-on-Trent,
Staffordshire ST7 1TL
T: +44 8456 448808
E: sales@reliancemedical.co.uk

1.4. Emergency telephone

National Poisons Information Service (UK) 0844 8920111 (Health Professionals only)
National Health Service (UK) 111

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Globally Harmonised System GHS not classified as hazardous
1272/2008/EC (CLP) not classified as hazardous

2.2. Label elements

This product is not classified as hazardous and does not have classification according Regulation (EC) No 1272/2008

Hazard pictograms: not regulated
Signal word: not regulated
Hazard statements: not regulated
Precautionary statements: not regulated

2.3. Other hazards

Not applicable.

SECTION 3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable.



3.2. Mixture

There is no ingredient present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Information on the composition of the product:

Raw material identification	CAS No.	EC No.
Water	7732-18-5	231-791-2
Sodium Phosphate Dibasic	7558-79-4	231-448-7
Sodium Dihydrogen Phosphate	7558-80-7	231-449-2

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

General information	No special measures required.
Eye contact	If irritation occurs flush eyes with plenty of water.
Skin contact	If irritation occurs, discontinue use and wash affected area with soap and water.
Ingestion	No special measures required.
Inhalation	No special measures required.

4.2. Most important symptoms and effects, both acute and delayed.

No further information available.

4.3. Indication of any immediate medical attention and special treatment needed.

No further information available.

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media	Use extinguishing methods suitable to surrounding conditions.
Unsuitable extinguishing media	None

5.2. Special hazards arising from the substance or mixture

No further information available.

5.3. Advice for firefighter

Protective actions during firefighting	No special measures required
Additional information	No further relevant information available

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

No precautions specified.

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6.2. Environmental precautions

Not specified.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers. Wipe up minor spills with a cloth.

6.4. Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

To ensure that the product remains sterile, the sealing must not be broken before use.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container. Keep away from ignition sources, heat, and flame. No smoking at working site.

7.3. Specific end use(s)

No specific uses identified.

SECTION 8. EXPOSURE CONTROL

8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2. Exposure controls

Personal protective equipment:

Respiratory:	Government approved respirator if needed.
Eye:	Not required.
Clothing:	Not required.
Hand:	Not required.
Other Protection:	No smoking, drinking, and eating at working site. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General Information:

Appearance:	
Form:	liquid
Colour:	clear

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Odour:	neutral
Odour threshold:	Not determined.
pH-value at 20 °C:	7.2
Change in condition	
Melting point/ Melting range:	0°C (water)
Boiling point/Boiling range:	100°C (water)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto/Self-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C (68 °F):	2.33kPa (20°C, Water)
Density at 20 °C (68 °F):	1 (3.9°C, Water)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with water:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

9.2. Other information

No further data available.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Contact with incompatible substances can cause decomposition or other chemical reactions.

10.2. Stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Heat, flame, and spark.

10.5. Incompatible materials

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Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.

10.6. Hazardous decomposition

Under normal conditions of storage and use, no hazardous decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

SODIUM DIHYDROGEN PHOSPHATE ANHYDROUS

Acute oral toxicity

LD50 Rat: > 2,000 mg/kg

OECD Test Guideline 401

Acute inhalation toxicity

LC50 Rat: > 0.83 mg/l; 4 h ; dust/mist

OECD Test Guideline 403

(highest concentration to be prepared)

Acute dermal toxicity

LD50 Rabbit: > 7,940 mg/kg

(IUCLID)

Skin irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

Eye irritation

Rabbit

Result: slight irritation

(IUCLID)

Sensitisation

Sensitisation test: Mouse

Result: Does not cause skin sensitisation.

Method: OECD Test Guideline 429

Germ cell mutagenicity

This information is not available.

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

This information is not available.

Specific target organ toxicity - repeated exposure

This information is not available.

Aspiration hazard

This information is not available.

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SODIUM PHOSPHATE, DIBASIC

Acute oral toxicity
LD50 Rat: > 2,000 mg/kg
OECD Test Guideline 420
Acute inhalation toxicity
This information is not available.
Acute dermal toxicity
This information is not available.
Skin irritation
Rabbit
Result: No irritation
OECD Test Guideline 404
After long-term exposure to the chemical: slight irritation
Eye irritation
After long-term exposure to the chemical: slight irritation
Sensitisation
This information is not available.
Germ cell mutagenicity
Genotoxicity in vitro
Ames test
Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 471
Carcinogenicity
This information is not available.
Reproductive toxicity
This information is not available.
Teratogenicity
This information is not available.
Specific target organ toxicity - single exposure
This information is not available.
Specific target organ toxicity - repeated exposure
This information is not available.
Aspiration hazard
This information is not available.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

SODIUM PHOSPHATE, DIBASIC

Toxicity to fish
LC50 *Gambusia affinis* (Mosquito fish): 467 mg/l; 48 h
(Lit.)
Toxicity to daphnia and other aquatic invertebrates
EC50 *Daphnia magna* (Water flea): 1,089 mg/l; 48 h
(Lit.)

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SODIUM DIHYDROGEN PHOSPHATE ANHYDROUS

Toxicity to fish
semi-static test LC50 *Oncorhynchus mykiss* (rainbow trout): > 100 mg/l; 96 h
OECD Test Guideline 203
(in analogy to similar products)
Toxicity to daphnia and other aquatic invertebrates
static test EC50 *Daphnia magna* (Water flea): > 100 mg/l; 48 h
Analytical monitoring: yes
OECD Test Guideline 202

12.2. Persistence and degradability

No data available.

12.3. Bio accumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Not determined.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

Not known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Smaller quantities can be disposed of with household waste.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number

DOT, ADR, ADN, IMDG, IATA Not regulated.

14.2. UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Not regulated.

14.3. Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA Not regulated.

14.4. Packing group

DOT, ADR, ADN, IMDG, IATA Not regulated.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
WHMIS:	Workplace Hazardous Materials Information System (Canada)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

Key literature references and sources for data

Approved Supply List Dangerous Substances Directive Dangerous Preparations Directive

Revision comments SDS created in line with REGULATION (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures (as amended).

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