



HURST SCIENTIFIC

**Safety Data Sheet
Phosphate Buffered Saline**

SECTION 1: Identification

GHS Product identifier

Product name	Phosphate Buffered Saline
Product number	PBS7.6-500M, 1L, 2.5L, 5L, 10L, 20L
Brand	Hurstchem

Other means of identification

Sorenson's Saline

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as Non-Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as a NON-Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 8

Not a hazardous substance or mixture.

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GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

No data available.

SECTION 3: Composition/information on ingredients

Components

1. Sodium chloride

Concentration	0.8 %
CAS no.	7647-14-5

2. Potassium phosphate Monobasic

Concentration	0.02 %
CAS no.	7778-77-0

3. Sodium phosphate dibasic

Concentration	0.1 %
CAS no.	7558-79-4

4. Potassium chloride

Concentration	0.02 %
CAS no.	7447-40-7

5. Water

Concentration	99 %
CAS no.	7732-18-5

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. Seek medical attention. If unconscious place in recovery position, provide artificial respiration if breathing ceases.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. If irritation develops, seek medical attention.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. If irritation develops or persists, seek medical attention.
If swallowed	DO NOT induce vomiting. If a small amount has been swallowed, dilute the stomach by consuming copious amounts of water. For large volumes seek immediate medical attention.

Indication of immediate medical attention and special treatment needed, if necessary

First aid facilities Eye wash station, safety shower and First Aid kit.
Advice to Doctor Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

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Use media suitable for other material involved in fire.

Specific hazards arising from the chemical

Toxic gases may evolve.

Potassium chloride: Hydrogen chloride gas, Potassium oxides

Special protective actions for fire-fighters

Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing. Ensure adequate ventilation. If possible contain the spill. Evacuate all unnecessary personnel.

Methods and materials for containment and cleaning up

Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Wash the affected area with a large volume of water. Do not contaminate drains or waterways.

SECTION 7: Handling and storage

Precautions for safe handling

Use only in an adequately ventilated area. Avoid breathing in mists or vapours. Wear appropriate protective clothing to avoid any exposure and practice good personal hygiene.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area away from direct sunlight.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Ensure adequate ventilation to maintain airborne concentrations below national exposure standards.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses or goggles,.

Skin protection

Chemical-resistant gloves and laboratory coat.

Respiratory protection

Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a P1 dust mask (disposable) or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

Environmental exposure controls

Biological Limit Values Not available for this product.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

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Physical state	Liquid
Appearance	Colourless liquid
Color	Clear
Boiling point or initial boiling point and boiling range	~ 100°C / 0°C
Flammability	Not applicable
Lower and upper explosion limit/flammability limit	Not applicable
pH	7.6
Solubility	Soluble in all proportion
Vapor pressure	23 hPa @ 20°C

SECTION 10: Stability and reactivity

Reactivity

Non-reactive under recommended conditions for use and storage.

Chemical stability

Stable under recommended conditions for use and storage.

Possibility of hazardous reactions

Polymerisation will not occur.

Conditions to avoid

Heat and incompatibles.

Incompatible materials

Strong oxidisers, alkalis and acids.

Hazardous decomposition products

Emits smoke and fumes when heated to decomposition.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

None allocated

Skin corrosion/irritation

S24/25 Avoid contact with skin and eyes.

Serious eye damage/irritation

S24/25 Avoid contact with skin and eyes.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

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Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Not expected to bio-accumulate.

Mobility in soil

No data available.

Other adverse effects

Environmental fate (exposure) Do not contaminate drains and waterways.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of in accordance with local authority guidelines.

Packaging disposal

Dispose of in accordance with local authority guidelines.

SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

Chemical Safety Assessment

Poison Schedule: None allocated

SECTION 16: Other information

Further information/disclaimer

This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as

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to the suitability of the information provided to the application in which the product is to be used. Copyright © 2023 Hurst Scientific

Preparation information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).