

SECTION 1 – IDENTIFICATION

Product Identifier:	1X Phosphate Buffered Saline (PBS)	
	Ultra Pure Grade	

Catalogue Number: 6004

Other means of identification: Not available

Recommended use of the chemical and restrictions on use:

Can be used for diluting substances and rinse containers containing cells, and take a reference spectrum when measuring the protein adsorption in ellipsometry. Additives can be used to add function. For R&D use only. Not for pharmaceutical, household or other uses.

Supplier Information:

Axil Scientific Pte Ltd	Apical Scientific Sdn Bhd	
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Emergency phone number:

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SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

Other hazards - None

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization: Mixture

Chemical Identity: Synonyms:	Sodium Chloride Salt Rock Salt Saline Table Salt
Molecular Formula:	NaCl
Molecular Weight:	58.44 g/mol
CAS No.:	7647-14-5
EC No.:	231-598-3



Potassium Chloride Chlorvescent Klotrix Potassium Monochloride Potassium Muriate KCI 74.55 g/mol 7447-40-7 231-211-8
Sodium Phosphate Dibasic sodium phosphate Disodium hydrogen phosphate Disodium orthophosphate Sodium hydrogen phosphate Disodium monohydrogen phosphate Phosphoric acid disodium salt Sodium monohydrogen phosphate Disodium phosphate Disodium phosphate Disodium phosphate Disodium phosphoric acid DSP Sodium acid phosphate Soda phosphate
Na ₂ HPO ₄ 141.96 g/mol 7558-79-4 231-448-7
Potassium Phosphate Potassium acid phosphate Potassium dihydrogenphosphate Monopotassium phosphate KH ₂ PO ₄ 136.08 g/mol 7778-77-0 231-913-4

SECTION 4 – FIRST-AID MEASURES

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Immediately wash skin thoroughly with soap and copious amounts of water.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.





Indication of immediate medical attention and special treatment needed

Data not available.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media

Use water spray, dry chemical powder, carbon dioxide or alcohol-resistant foam.

Special Exposure Hazards

Oxides of phosphorus, Hydrogen chloride gas, Potassium oxides, Sodium oxides

Special Fire-fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Prevent skin/eye contact.

Environmental Precautions

Do not allow material into sewers and drainage systems.

Methods for Cleaning Up

Clean up spills immediately, observing precautions in the safety data sheet and label. Dispose into a chemical waste container.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Use with adequate ventilation as necessary or desired. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all SDS/ label precautions. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container in a cool, dry and well-ventilated area.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits

We are not aware of any national exposure limit.

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Eye/ Face Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin/ Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.



Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
a)	Appearance	Colourless solution
b)	Odour	Odourless
C)	Odour Threshold	Not available
d)	pH (Neat, 25 °C)	7.2 – 7.6
e)	Melting/freezing point	Not available
f)	Initial boiling point and boiling range	Not available
g)	Flash point	Not available
h)	Evaporation rate	Not available
i)	Flammability (solid, gas)	Not available



j)	Upper/lower flammability or explosive limits	Not available
k)	Vapour pressure (mm Hg)	Not available
I)	Vapour density	Not available
m)	Relative density	Not available
n)	Water solubility	Not available
0)	Partition coefficient: n-octanol/water	Not available
p)	Autoignition temperature	Not available
q)	Decomposition temperature	Not available
q) r)	Decomposition temperature Viscosity	Not available Not available

Reactivity Data not available.

Chemical stability Stable.

etable.

Possibility of hazardous reactions

Data not available.

Conditions to avoid Data not available.

Data not available.

Incompatible material Data not available.

Hazardous decomposition products

Data not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity Data not available.

Skin corrosion/irritation Data not available.

Serious eye damage/eye irritation Data not available.



Respiratory or skin sensitization

Data not available.

Germ cell mutagenicity

Data not available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity Data not available. Specific target organ toxicity – single exposure Data not available.

Specific target organ toxicity – repeated exposure Data not available.

Aspiration hazard Data not available.

Other information RTECS: Data not available

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity Data not available.

Persistence and degradability

Data not available.

Bioaccumulative potential Data not available.

Mobility in soil Data not available.

Other adverse effect

Data not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose off as unused product.

SECTION 14 – TRANSPORT INFORMATION

UN Number



ADR/RID: -		IMDG: -	IATA-DGR: -
UN Proper Sh ADR/RID: IMDG: IATA-DGR:	ipping Name: Not dangerous goods Not dangerous goods Not dangerous goods		
Transport Haz ADR/RID: -	ard Class(es)	IMDG: -	IATA-DGR: -
Packing Grou ADR/RID: -	p	IMDG: -	IATA-DGR: -
Environmental Hazards ADR/RID: no IN		IMDG: marine pollutant: no	IATA-DGR: no
Special Precaution for Users Data not available			

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture Data not available

SECTION 16 – OTHER INFORMATION

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Axil Scientific Pte Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.