

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PC0711-2pk

Product Name: Phosphate buffered saline (PBS)

Intended Use:

For research use only. Not for use in diagnostic procedures.

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	EC No.	%
Sodium phosphate dibasic	7558-79-4	231-448-7	10-20

See actual entry in RTECS for complete information.

SECTION 3: HAZARDS IDENTIFICATION**GHS Classification according to OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/ eye irritation – Category 2

GHS Label elements, including precautionary statements

Signal word: Warning

Hazard Statements

H319 Causes serious eye irritation

Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling.

Wear eye protection/face protection.

If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists, get medical advice/attention.

Hazard not otherwise classified (HNOC)

Not regulated.

Other information

May be harmful if swallowed.

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SECTION 4: FIRST-AID MEASURES

In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

In case of skin contact, immediately wash skin with soap and copious amounts of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If not breathing, give artificial respiration.

In case of ingestion, wash mouth with water. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and fully protective gear.

Hazardous decomposition products formed under fire conditions: No information available.

Explosion data – sensitivity to mechanical impact: None.

Explosion data – sensitivity to static discharge: None.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, ensure adequate ventilation, especially in confined areas.

For environmental precautions, prevent further leakage or spillage if safe to do so.

For cleaning up, pick up and transfer to properly labeled containers. Avoid dust formation. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice.

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.

Incompatible with strong acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

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Eye/Face Protection	Wear safety glasses with side shield. Avoid contact with eyes.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure-supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Use engineering measures such as showers, eyewash stations and ventilation systems.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White granular
Physical state:	Granular powder
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	pH7-8 (Diluted into 1X)
Melting point:	No information available
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	No information available
Flash point:	Not applicable
Autoignition temperature:	No data available
Decomposition temperature:	No information available
Upper Flammability limit in air:	No data available
Lower Flammability limit in air:	No data available
Explosive properties:	No information available
Oxidizing properties:	No information available
Solubility:	Soluble in water
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available

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SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Strong acids.
Hazardous decomposition products:	None known based on information supplied.
Hazardous reaction:	None under normal processing.
Conditions to avoid:	Protect from moisture.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50:	Rat – 17g/kg
Inhalation LC50:	No data available
Dermal LD50:	No data available

Inhalation	There is no data available for this product.
Eye Contact	Irritating to eyes.
Skin Contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Sensitization:	No data available
Mutagenicity effects:	No data available
Reproductive toxicity:	No data available
Aspiration hazard:	No data available
Synergistic effects:	No data available
STOT – single exposure:	No data available
STOT – repeated exposure:	No data available
Target organ effects:	Heart
Carcinogenicity:	No data available.

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

17% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and degradability:	No information available
Bioaccumulative potential:	No information available
Other adverse effects:	No information available

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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste material in accordance with federal, state and local environmental regulations. For contaminated packaging, do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

IATA

Not regulated.

DOT

Not regulated.

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

United States Federal Regulations

SARA 313 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name:	Sodium phosphate dibasic
Hazardous substances RQs:	5000lb
CWA-Hazardous substances:	X
Extremely Hazardous Substances RQs:	-
RQ:	RQ 5000 lb final RQ; RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Sodium phosphate dibasic

Massachusetts:	X
New Jersey:	X
Pennsylvania:	X
Illinois:	-
Rhode Island:	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

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SECTION 16: OTHER INFORMATION

The information contained in this MSDS relates only to the material(s) designed and does not relate to use(s) in combination with any other material, process(es) and /or chemical reaction(s). Vivantis Technologies Sdn. Bhd. provides this information in good faith, from sources believed to be accurate; however, Vivantis assumes no liability for its accuracy or completeness, and thus shall not be held liable for any damage resulting from handling or from contact with the above product.

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