

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PB1812-500mL/1L; PB1814-500mL/1L; PB1816-500mL/1L;
PB1818-500mL/1L; PB1842-500mL/1L; PB1844-500mL/1L;
PB1846-500mL/1L; PB1848-500mL/1L PB1852-500mL/1L;
PB1854-500mL/1L; PB1856-500mL/1L; PB1858-500mL/1L

Product Name: 1X Phosphate Buffered Saline with 0.05% Tween 20, pH7.2;
1X Phosphate Buffered Saline with 0.05% Tween 20, pH7.4;
1X Phosphate Buffered Saline with 0.1% Tween 20, pH7.2;
1X Phosphate Buffered Saline with 0.1% Tween 20, pH7.4;
10X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.05% Tween 20, pH7.2);
10X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.05% Tween 20, pH7.4);
10X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.1% Tween 20, pH7.2);
10X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.1% Tween 20, pH7.4);
20X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.05% Tween 20, pH7.2);
20X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.05% Tween 20, pH7.4);
20X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.1% Tween 20, pH7.2);
20X Phosphate Buffered Saline with Tween 20 (1X PBS with 0.1% Tween 20, pH7.4)

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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.	%
Sodium chloride	7647-14-5	79.6
Potassium Chloride	7447-40-7	2
Disodium hydrogen orthophosphate	7558-79-4	11.4
Potassium dihydrogen orthophosphate	7778-77-0	2
Tween 20	9005-64-5	5

For more information, see complete RTECS entry.

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SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture according to Singapore Standard SS 586 Part 2.

Potential acute health effects

In case of inhalation, may be harmful and may cause respiratory tract irritation.

In case of skin contact, may cause skin irritation.

In case of eye contact, may cause eye irritation.

In case of ingestion, may be harmful.

Potential chronic health effects

Carcinogenic effects: No component of this product presents at levels great than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC or ACGIH.

Mutagenic effects: Not available.

Reproductive toxicity: Not available.

Teratogenic effects: Not available.

Developmental toxicity: Not available.

SECTION 4: FIRST-AID MEASURES

In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

In case of skin contact, immediately wash skin with soap and copious amounts of water. Call a physician if irritation persists. For serious skin contact, wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream.

In case of inhalation, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

In case of ingestion, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician.

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SECTION 5: FIRE FIGHTING MEASURES

Not flammable.

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

Use water spray, appropriate foam, dry chemical powder or carbon dioxide.

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: Carbon oxides, oxides of phosphorus, hydrogen chloride gas, potassium oxides, and sodium oxides.

Flash point: Not available.

Explosion data – sensitivity to mechanical impact: Not available.

Explosion data – sensitivity to static discharge: Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For cleaning up small spill, sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

For cleaning up large spill, use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Keep container in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: Respiratory government approved respirator.

Hand protection: chemical resistant gloves.

Eye protection: Safety glasses.

For engineering measures, use mechanical exhaust or laboratory fume hood to avoid exposure. Use splash suit, boots, dust respirator and gloves in case of large spill.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	No information available
Physical state:	Powder
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	pH 7.2 (PB1812, PB1816, PB1842, PB1846, PB1852, PB1856); pH 7.4 (PB1814, PB1818, PB1844, PB1848, PB1854, PB1858)
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:	No data available
Partition coefficient:	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

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Strong oxidizing agents, strong acids.
Hazardous decomposition products:	Not available.
Hazardous polymerization:	Not available.
Conditions to avoid:	Not available.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

No data available.

Chronic effects on Humans

Eyes	May cause eye irritation.
Skin	May be harmful if absorbed through the skin.
Inhalation	May be harmful by inhalation. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion	May be harmful if swallowed

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effect:	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste material in accordance with federal, state and local environmental control regulations.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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SECTION 14: TRANSPORT INFORMATION

DOT

Not a DOT controlled material.

IATA

Not an IATA controlled material.

IMDG

Not an IMDG controlled material.

Identification: Not available.

Special Provisions for Transport: Not available.

SECTION 15: REGULATORY INFORMATION

GHS Classification

Acute toxicity, oral –	Category 5
Skin irritation –	Category 3
Eye irritation –	Category 2B

WHMIS (Canada)

Not WHMIS controlled.

DSCL (EEC)

Not available.

HMIS (U.S.A)

Health hazard:	1
Fire hazard:	0
Reactivity:	0
Personal protection:	Not available

National Fire Protection Association (U.S.A)

Health:	1
Flammability:	0
Reactivity:	0
Specific hazard:	Not available
Protective equipment:	Gloves, lab coat, dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

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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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