MATERIAL SAFETY DATA SHEET
VIVANTIS TECHNOLOGIES SDN BHD

Document No.: MSDSrev06_PB0100
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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: PB0100-500ml; PB0100-1L
Product Name: Nuclease-free, Water

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.	Index No.	%
Water	7732-18-5	231-791-5	100

Molecular weight: 18.051
See actual entry in RTECS for complete information.

SECTION 3: HAZARDS IDENTIFICATION

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

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

OSHA Regulatory Status
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Hazards not otherwise classified (HNOC)
Not regulated

Other Information
0% of the mixture consists of ingredient(s) of unknown toxicity

SECTION 4: FIRST-AID MEASURES

In case of eye contact, wash eyes with large amounts of water or normal saline for at least 15 minutes. Observe for signs of irritation. If irritation is present, get medical attention.
In case of skin contact, remove contaminated clothing. Flush affected area with water and then wash with soap or mild detergent and water. Observe for signs of irritation. If irritation is present, get medical attention.
In case of inhalation, remove from exposure area to fresh air immediately. Get medical attention immediately.
In case of ingestion, get medical attention.
In case of injection, get medical attention.
Note to physician that there is no specific antidote. Treat symptomatically and supportively.

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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 dry chemical, foam, carbon dioxide or water. Care should be taken as to not aerosolize the powder, where it could become an inhalation risk.

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

Explosion data – sensitivity to mechanical impact:	No data available.
Explosion data – sensitivity to static discharge:	No data available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, wear appropriate protective clothing and chemically compatible gloves. Wash contaminated clothing before reuse.

For cleaning up, place spillage in appropriate container for waste disposal.

SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Keep tightly closed in a dry and cool place (prolonged storage at 4ºC).

Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Controls:	Use in a laboratory hood or other ventilated device. OSHA, ACGIH, or NIOSH has not established occupational exposure limits for this substance. Use prudent laboratory practices for handling chemical substances of unknown toxicity.
Eye Protection:	Employees should wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.
Clothing:	Employees should wear appropriate protective clothing (laboratory coat with long sleeves) and equipment to prevent skin contact with this material.
Gloves:	Employee must wear appropriate protective gloves to prevent contact with this material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear/Colorless
Physical state:	Liquid
Odor:	Odorless
Odor threshold:	No information available
Density:	1.0 g/cmn at 20ºC
pH:	5.0 - 7.0 (slightly acidic)
Melting point:	0.0ºC
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	100.0ºC
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:	23 hPa at 20ºC
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:	No information available
Hazardous decomposition products:	None known based on information
Possibility of hazardous reactions:	No dangerous reactions known
Conditions to avoid:	No information available

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity

The toxicological properties of this material have not been investigated. For research and development purposes only.

Respiratory or skin sensitization:	No information available
Carcinogenic effects:	No information available
Mutagenic effects:	No information available
Reproductive toxicity:	No information available
Aspiration hazard:	No information available
STOT – single exposure:	No information available
STOT – repeated exposure:	No information available

Carcinogen/Reproductive Toxin Status:

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

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Impact Rating (0-4):	No data available
Acute Aquatic Toxicity:	No data available
Degradability:	No data available
Log Bioconcentration Factor (Bcf):	No data available
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.

SECTION 14: TRANSPORT INFORMATION

DOT (US):

Not regulated.

IATA:

Not regulated.

SECTION 15: REGULATORY INFORMATION

United States Federal Information:

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

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)

Canada Regulatory Information:

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: No

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EU Guidelines:

The preparation is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, and 88/379/ECC, and is not labeled with danger symbols or indications of danger.

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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