

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

Document No.: MSDSrev04_pBR322

Date prepared: 10th January 2023

Reviewed: 10th January 2023

SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: NN1404; NN1404-S

Product Name: pBR322 DNA, 0.2-0.5µg/µl

Intended Use:

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

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture.

Health hazards:	Not hazardous
Physical hazards:	Not hazardous
Environmental hazards:	Not hazardous

Label elements

Signal word

None

Hazard statements

None

Precautionary statements

None

Other hazards

Not applicable

SECTION 4: FIRST-AID MEASURES

Immediate medical attention is required. In case of accident or unwellness, seek medical advice immediately. Remove from exposure, lie down. Do not breathe dust/fume/gas/mist/vapors/spray.

In case of contact with eyes, immediately flush with copious amounts of water for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do.

In case of contact with skin, immediately wash with soap and copious amounts of water for several minutes. Take off immediately all contaminated clothing.

In case of inhalation, remove to fresh air.

In case of ingestion, wash out mouth with water provided the person is conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician immediately.

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SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media

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

Unsuitable: Use of water spray when fighting fire may be inefficient.

As in any fire, wear self contained breathing apparatus and protective clothing and equipment to prevent contact with skin and eyes for firefighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear the protective clothing, rubber gloves and mask. Ensure adequate ventilation, especially in confined areas.

Environmental Precautions

Do not let product enter drains. Prevent further leakage or spillage if safe to do so.

Measures for Cleaning / Collecting

Soak up with inert absorbent material. Collect spilled liquid with liquid-binding material or inert absorbent and place in closed container for disposal.

Dispose of in accordance with federal, state and local environmental regulations.

Wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice.

Storage

Store all components as directed in the product insert. Keep tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear appropriate personal protective equipment when working with components or samples, including laboratory coats, disposable gloves and eye protection. Avoid hand and mouth contact. Wash hands as soon as possible after handling components or samples. Handle in accordance with good industrial hygiene and safety practice.

Exposure Controls

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

For eye and face protection, wear safety glasses with side shields or goggles.

For skin and body protection, wear suitable protective clothing and gloves.

For respiratory protection, use in well ventilated areas.

Environmental Exposure Controls

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid, colorless
Odor:	No odor
Melting Point:	No information available
Boiling Point:	No information available
Flash Point:	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Evaporation rate:	No information available
Flammability:	No information available
Upper Explosion Limit:	No information available
Lower Explosion Limit:	No information available
Vapor Pressure:	No information available
Relative Density:	No information available
Specific Gravity:	No information available
Water Solubility:	No information available
Partition coefficient: n-octanol/water:	No information available
Explosive Properties:	Not classified as explosive
Oxidizing Properties:	Not classified as oxidizing
Other information:	No information available

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No dangerous reaction known under conditions of normal use
Chemical stability:	Stable under normal conditions
Possibility of hazardous reactions:	Can react briskly with oxidizers – danger of explosion
Conditions to avoid:	Incompatible materials. Ignition sources. Heat.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

For inhalation, avoid breathing vapors or mists. May cause irritation of respiratory tract.
 For eye contact, may cause redness and slight irritation.
 For skin contact, prolonged contact may cause redness and irritation; repeated exposure may cause skin dryness or cracking.
 For ingestion, may cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.

Delayed and immediate effects, chronic effects from short and long-term exposure

Skin corrosion / irritation:	Mild
Serious eye damage / eye irritation:	Mild
Respiratory or skin sensitization:	Mild
Germ cell mutagenicity:	No data available
Carcinogenicity effects:	No data available
Reproductive toxicity:	Not classified based on available information
Aspiration toxicity:	Not classified based on available information
STOT – Single exposure:	Not classified based on available information
STOT – Repeated exposure:	Not classified based on available information
Target organ effects:	Kidneys, eyes, skin, respiratory system

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available.

0.15759% of the mixture consists of components of unknown hazards to the aquatic environment.

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility in Soil

No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or drains with chemical or used container. Used components from this product should be disposed to a licensed waste management company.

Waste material must be disposed of in accordance with federal, state and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

IATA / ADR / DOT-US / IMDG

Not regulated as dangerous product in the meaning of transport regulations.

UN Number: Not regulated as dangerous product

UN proper shipping name: Not regulated as dangerous product

Transport hazard class: Not applicable

Packing group: Not applicable

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SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA: Complies

US Federal Regulations

CWA (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).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

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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