

MATERIAL SAFETY DATA SHEET

**VIVANTIS TECHNOLOGIES SDN BHD
REVONGEN CORPORATION CENTER**

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SECTION 1: CHEMICAL IDENTIFICATION

Catalogue Number: TA010; TA010-S; TA020; TA020-S

Product Name: pTG19-T PCR Cloning Vector; pTG19-T PCR Cloning Vector with T4 DNA Ligase

Intended Use:

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

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

There is no hazardous substance or mixture in the kit.

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture

GHS Label Element

Not a hazardous substance or mixture

Classification and labeling according to Regulation (EC) No. 1272/2008 [CLP]

Classification	None
Hazard pictogram	None
Signal word	None
Hazard statements	None
Precautionary statements	None

Classification according to Directive 1999/45/EC

None

SECTION 4: FIRST-AID MEASURES

In case of eye contact, wash thoroughly with water for up to 15 minutes. Seek medical assistance if there is persistent irritation.

In case of skin contact, wash with soap and excess water. Seek medical assistance if irritation is persistent. In case of inhalation, move individual to fresh air. Give artificial respiration if not breathing. Seek medical assistance if there are problems.

In case of ingestion, never give anything by mouth to an unconscious person. Rinse mouth with water provided the person is conscious. Seek medical assistance if there are problems.

Most important symptoms and effects, both acute and delayed:

No further relevant information available

Indication of any immediate medical attention and special treatment needed:

No further relevant information available

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SECTION 5: FIRE FIGHTING MEASURES

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

Use water spray or extinguishing powder, carbon dioxide, foam or dry chemical to extinguish the fire.

No further relevant information available for special hazards arising from the substance or mixture.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, avoid inhaling this product and remove all sources of ignition. Avoid contact with skin, eyes and clothing by using personal protective equipment as needed.

For environmental precautions, prevent further leakage or spillage if safe to do so for containment. Do not let product enter drains.

For cleaning up, absorb using clean tissue and clean with absolute ethanol. Pick up and transfer to properly label closed containers for disposal according to local regulations. Wash spill site and ventilate area after picking up is completed.

SECTION 7: HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Normal measures for preventive fire protection.

Storage

Store at 4°C for daily use or frequent use; store at -20°C for long term use.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Respiratory protection	Breathing equipment not required.
Eye/Face protection	Wear tightly fitted safety goggles if needed. Where contact with the eyes is likely, use chemical goggles.
Hand Protection	Selection of the glove material on consideration of the penetration time, rates of diffusion and the degradation. The glove material has to be impermeable and resistant to the product/the substance/the preparation.
Skin and body protection	Wear clean protective body covering clothing as needed to minimize contact with clothing and skin.

Use engineering measures such as showers, eyewash stations and ventilation system.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless solution
Physical state:	Liquid
Odor:	Odorless
Odor threshold:	No information available
Relative density:	No information available
pH:	No information available
Melting point:	No information available
Freezing point:	No information available
Boiling point:	No information available
Flash point:	No information available
Auto-ignition temperature:	No information available
Decomposition temperature:	No information available
Flammability:	No information available
Explosive limits:	No information available
Explosive properties:	No information available
Oxidizing properties:	No information available
Solubility:	No information available
Partition coefficient:	No information available

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Vapor pressure:	No information available
Vapor density:	No information available
Evaporation rate:	No information available
Viscosity:	No information available

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	No data available.
Hazardous decomposition products:	Carbon oxides.
Hazardous polymerization:	No dangerous reactions identified.
Conditions to avoid:	Protect from heat, flames and sparks.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50	None
Inhalation LC50	None
Dermal LD50	None
Other information on acute toxicity	No data available

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available

Additional toxicological information

The product is not subject to classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity:	No information available
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available
Biodegradation:	No information available
Mobility in soil:	No information available
Results of PBT and vPvB assessment:	No information available
Other adverse effects:	No information available

To the best of our knowledge, the environmental impact of this product has not been fully investigated.

SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Do not dispose product directly into sewage. The packaging of this product and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

IATA, IMDG, DOT (US):	Not dangerous good during transportation
Hazard Class:	Not determined
Identification Number:	Not determined
Packing Group:	Not determined
Proper Shipping Name (Technical Name):	Not determined
Environmental Hazards:	None
Special Precaution for User:	None

SECTION 15: REGULATORY INFORMATION

Product related hazard information:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

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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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