

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: Dengue Virus Serotype 4 VLP  
IUPAC name: -  
Product Number: REC31997-100 / REC31997-500  
CAS number:

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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

#### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### 2.3 Other hazards

This product does not contain substances listed on the ECHA Candidate list or identified as an endocrine disruptor as defined in Delegated Regulations (EC) 2017/2100 or (EC) 2018/605

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Dengue Virus Serotype 4 VLP. Sample is of biological origin and is presented as a liquid in a plastic vial. Each vial contains no more than 1000µg.

Additional components present: Dulbecco's PBS pH7.4, 30% sucrose



#### 4. FIRST AID MEASURES

- If inhaled:** Remove person to fresh air, seek medical advice if breathing becomes difficult.
- In case of skin contact:** Wash off with soap and water. In case of skin irritation or allergic reactions seek medical advice
- In case of eye contact:** Rinse at eyewash station. Seek medical attention
- If swallowed:** Rinse mouth

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

None required.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Avoid direct contact with the product. Wear a laboratory coat, protective glasses and gloves.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and materials for containment and cleaning up**

Pick up using absorbent tissue and arrange for safe disposal. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Avoid contact with skin and eyes.

**Conditions for safe storage**

Recommended storage temperature:

Short term: +4°C.

Long-term: -80°C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal protective equipment**

**Respiratory protection**



None necessary.

#### Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
Handle with gloves.

#### Eye protection

Safety glasses if desired

#### Skin and body protection

Laboratory coat

#### Hygiene measures

Avoid contact with skin, eyes and clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Colourless liquid

#### Safety data

Physical State:	Colourless Liquid
Colour:	Colourless
Odour:	no data available
Odour Threshold (ppm):	no data available
pH:	7.3-7.5
Melting Point (°C) / Freezing Point (°C):	no data available
Boiling point/boiling range (°C):	no data available
Flash Point (°C):	no data available
Evaporation rate (BA = 1):	no data available
Flammability (solid, gas):	no data available
Explosive limit ranges:	no data available
Vapour Pressure (mm Hg):	no data available
Vapour Density (Air=1):	no data available
Density (g/ml):	no data available
Solubility (Water):	soluble
Solubility (Other):	no data available
Partition Coefficient (n-Octanol/water):	no data available
Auto Ignition Temperature (°C):	no data available
Decomposition Temperature (°C):	no data available
Viscosity (mPa.s):	no data available
Explosive properties:	no data available
Oxidising properties:	no data available

## 9.2 Other information

no data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Conditions to avoid

Avoid multiple freeze thaw cycles

### Materials to avoid

Strong oxidizing agents

### Hazardous decomposition products

None known

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 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

#### Carcinogenicity

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

#### Reproductive toxicity

no data available

#### Aspiration hazard

no data available

#### Potential health effects



<b>Inhalation</b>	None
<b>Ingestion</b>	None
<b>Skin</b>	None
<b>Eyes</b>	May cause eye irritation.

**Signs and Symptoms of Exposure**

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

**Additional Information****11.2 Information on other hazard classes which relates to endocrine disrupting properties.**

Not applicable

**12. ECOLOGICAL INFORMATION****Toxicity**

No data available

**Persistence and degradability**

Degrades easily

**Bioaccumulative potential**

Low

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Endocrine disrupting properties**

no data available

**Other adverse effects**

no data available

**13. DISPOSAL CONSIDERATIONS****Product**

Observe all federal, state, and local environmental regulations. Can be disposed of down sink.

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

Not dangerous goods, no transport limitations.

#### 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 16. OTHER INFORMATION

None

**Last updated:** 10/12/2025

**Prepared by:** The Native Antigen Company

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