SAFETY DATA SHEET

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

Product name: Dengue Virus Serotype 1-4 NS1 Protein (Insect Cells).
IUPAC name: -
Product number: REC31778, REC31779, REC31780, REC31781
CAS number: -

Company: The Native Antigen Company
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2. HAZARDS IDENTIFICATION

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.

Label elements

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Dengue Virus serotype 1-4 NS1 protein is expressed in insect cells. Sample is of biological origin and is presented as liquid in a plastic vial. Each vial contains no more than 1000μg.

Additional components present: PBS, pH7.4 with 0.05% sodium azide as preservative.

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 eye contact: Rinse at eyewash station.

If swallowed: Rinse mouth with water.

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
Wear 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: -20 to -80 °C for long term.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SODIUM AZIDE

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³
Short-term exposure limit (15-minute): WEL 0.3 mg/m³ as NaN₃
Sk

WEL = Workplace Exposure Limit
Sk = Can be absorbed through skin

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

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**

- **pH:** pH 7.4
- **Melting point:** No data available
- **Boiling point:** No data available
- **Flash point:** No data available
- **Ignition temperature:** No data available
- **Lower explosion limit:** No data available
- **Upper explosion limit:** No data available
- **Water solubility:** Soluble

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

**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**

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>None</td>
</tr>
<tr>
<td>Ingestion</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation</td>
</tr>
</tbody>
</table>
Eyes
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

12. ECOLOGICAL INFORMATION

Toxicity
No data available

Persistence and degradability
Degradates easily

Bioaccumulative potential
Low

Mobility in soil
No data available

PBT and vPvB assessment
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 update: 14 November 2019
Prepared by: The Native Antigen Company

Although the information, opinions and recommendations contained in this Safety Data Sheet are compiled from sources believed to be reliable, we accept no responsibility for the accuracy, sufficiency, or reliability or for any loss or injury resulting from the use of the information.