

## SAFETY DATA SHEET

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

Product Name: MERS Coronavirus Spike Glycoprotein (S1), His-Tag (Insect Cells)  
IUPAC name: -  
Product Number: REC31855-100  
CAS number:

Company: The Native Antigen Company Ltd.  
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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

Middle East respiratory syndrome coronavirus (MERS-CoV) recombinant Spike sub-unit 1 protein, expressed in baculovirus-infected insect cells, using a heterologous signal sequence. 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: DPBS.

### 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:** No treatment required.

## 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:

Short term: -80°C.

Long-term: -80°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### 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

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**

<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**

### **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

#### **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:** 09/06/2020

**Prepared by:** The Native Antigen Company

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