

# SAFETY DATA SHEET (SDS)

## Spike S1 Protein (SARS-CoV-2 South Africa Variant B.1.351)

### 1: Identification

#### PRODUCT DETAILS

<b>Product Name</b>	Receptor Binding Domain of SARS-CoV-2 Spike Protein (B.1.351)
<b>Other Names</b>	None SCV2-S1-SAp
<b>Use</b>	For research use, <i>i.e.</i> western blot standard, antibody ELISA, antigen
<b>Company</b>	eENZYME LLC
<b>Address</b>	401 Professional Drive, Suite 160 Gaithersburg, MD 20879, USA
<b>General Information</b>	1-240-683-5851

### Section 2: Hazards Identification

**GHS Classification of substances and mixtures:** Not hazardous. May cause eye or skin irritation in susceptible individuals. May be harmful if swallowed or inhaled.

**Signal Word:** Not hazardous.

**Other Information:** No other information available.

### Section 3: Composition/Information on Ingredients

At the concentration of the chemicals in the aqueous solution provided, the protein is considered nonhazardous.

<b>Chemical Components</b>	<b>Description</b>
Spike S1(SAp)	Recombinant protein, 50 µg
KCl	10 µg
KH <sub>2</sub> PO <sub>4</sub>	12.25 µg
NaCl	400 µg
Na <sub>2</sub> HPO <sub>4</sub>	72 µg

### Section 4: First Aid Measures

<b>Swallowed</b>	Rinse mouth with water then drink copious amounts of water.
<b>Eye</b>	Wash continuously with water for 15 minutes
<b>Skin</b>	Immediately wash skin with soap and water. Wash contaminated clothing.
<b>Inhaled</b>	Remove to fresh air.
<b>First Aid Facilities</b>	Eye bath
<b>Physician's note</b>	Treat symptomatically.

#### Section 5: Fire Fighting Measures

<b>Extinguishing Media</b>	None
<b>Special Firefighting Procedures</b>	None
<b>Unusual Fire and Explosions Hazards</b>	None

#### Section 6: Accidental Release Measures

<b>Spill Response</b>	Absorb with paper towel and dispose into biohazard waste
<b>Containment</b>	None
<b>Personal Precautions and Equipment</b>	Gloves, Protective goggles, laboratory coat
<b>Emergency Procedures</b>	Avoid direct skin and eye contact when cleaning up

#### Section 7: Handling and Storage

<b>Recommendations for Safe Storage</b>	No special precautions for personal safety
<b>Additional Storage Information</b>	None
<b>Precautions for Safe Handling</b>	Use Safe Laboratory Practice.
<b>Additional Precautions for Handling</b>	None

#### Section 8: Exposure Controls/Personal Protection

<b>Exposure Limits</b>	No data
<b>Engineered Environmental Controls Needed</b>	No special controls needed
<b>Personal Protective Measures</b>	Use Safe Laboratory Practice, protective gloves, goggles, laboratory coat
<b>Special Requirements</b>	None

#### Section 9: Physical and Chemical Properties

<b>Physical State</b>	Aqueous Solutions
<b>Odor</b>	None
<b>Solubility in Water</b>	Good
<b>Specific Gravity</b>	No data
<b>pH</b>	Neutral
<b>Boiling Point</b>	No data
<b>Melting Point</b>	No data
<b>Flash Point</b>	No data
<b>Vapor Pressure</b>	No data
<b>Vapor Density</b>	No data

#### Section 10: Stability and Reactivity

<b>Reactivity</b>	Compounds considered non-dangerous at concentrations given.
<b>Chemical Stability</b>	Stable
<b>Hazardous Reactions or Polymerizations</b>	Will not occur.
<b>Hazardous Decomposition Products:</b>	None. Burning can produce oxides of carbon and nitrogen.
<b>Incompatible Materials</b>	None known

Section 11: Toxicological Information
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<b>Likely Routes of Exposure</b>	None if properly handled. Accidental routes include skin, eye and mouth. Accidental exposure might cause a reaction in susceptible individuals.
<b>Effects of Exposure</b>	None known, general class of similar chemical solutions have no toxic, carcinogenic, or mutagenic effects.
<b>Toxicity Data and LD50</b>	None known at concentrations provided.

Other Information
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<b>Preparation Date</b>	7/12/2021
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The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.