



**\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\***

MSDS Name: SARS-CoV-2 S1 protein (L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y), His Tag

**\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\***

MSDS Name: SARS-CoV-2 S1 protein (L18F, T20N, P26S, D138Y, R190S, K417T, E484K, N501Y, D614G, H655Y), His Tag  
Catalog Numbers: S1N-C52Hp

Company Identification: ACROBIOSYSTEMS INC  
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**\*\*\*\* SECTION 2 - HAZARDS IDENTIFICATION \*\*\*\***

**EMERGENCY OVERVIEW**

Eye: Potassium chloride can cause eye irritation, including redness, tearing, and possible abrasions.  
Skin: Sodium Phosphate is a corrosive material and can cause burns.  
Sensitization possible through skin contact and inhalation.  
Ingestion: Material can be irritating to mucous membranes and respiratory tract.  
Inhalation: Inhalation of high concentrations of dust may cause nasal or lung irritation.  
Ingestion of large quantities can produce gastrointestinal irritation and vomiting.  
Chronic: N/A

**\*\*\*\* SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\***

The product contains no substances which at their given concentration, are considered to be hazardous to health.  
We recommend handling all chemicals with caution.

**\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\***

Eyes: Rinse opened eye for at least 15 minutes under running water, lifting upper and lower eyelids occasionally.  
Seek medical attention.  
Skin: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes.  
Seek medical attention.  
Ingestion: swallowed and patient is conscious, induce vomiting. Seek medical attention immediately.  
Inhalation: In case of unconsciousness, place patient on side position for transportation.  
If not breathing, give artificial respiration. Supply fresh air or oxygen; seek medical attention immediately.

**\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\***

Fight larger fires with water or alcohol resistant foam. Firefighters should wear protective equipment and self-contained breathing apparatus. As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

**\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\***

|                         |  |
|-------------------------|--|
| Personal Precautions    | Use personal protective equipment.                                   |
| Methods for Cleaning Up | Take up mechanically and collect in suitable container for disposal. |

**\*\*\*\* SECTION 7 - HANDLING AND STORAGE \*\*\*\***

Handling: Wear personal protective equipment.

Storage: Keep in properly labelled containers.

**\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\***

Engineering Controls: Ensure adequate ventilation, especially in confined areas

**Personal Protective Equipment**

Respiratory Protection : In case of insufficient ventilation wear suitable respiratory equipment.  
Hand Protection: Protective gloves.  
Eye Protection: Safety glasses with side-shields.  
Skin and Body Protection: Lightweight protective clothing.  
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.  
Environmental Exposure: Prevent product from entering drains.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

General Information

Form Solid Lyophilized powder

Important Health Safety and Environmental Information

|                          |                          |                      |
|--------------------------|--------------------------|----------------------|
| Boiling Point/Range      | °C No data available     | °F No data available |
| Melting Point/Range      | °C No data available     | °F No data available |
| Flash Point              | °C No data available     | °F No data available |
| Autoignition Temperature | °C No data available     | °F No data available |
| Oxidizing Properties     | No information available |                      |
| Water Solubility         | No data available        |                      |

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

|                                  |  |
|----------------------------------|--|
| Stability                        | Stable.                                  |
| Materials to Avoid               | No information available.                |
| Hazardous decomposition products | No information available.                |
| Polymerization                   | Hazardous polymerisation does not occur. |

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

**Acute Toxicity**

Principle Routes of Exposure/

Potential Health effects

|            |  |
|------------|--|
| Eyes       | May cause eye irritation with susceptible persons. |
| Skin.      | No information available.                          |
| Inhalation | May cause irritation of respiratory tract.         |
| Ingestion  | May be harmful if swallowed.                       |

**Specific effects (Long Term Effects)**

|                       |                           |
|-----------------------|---------------------------|
| Carcinogenic effects  | No information available. |
| Mutagenic Effects     | No information available. |
| Reproductive Toxicity | No information available. |
| Sensitization         | No information available. |

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

|                     |                           |
|---------------------|---------------------------|
| Ecotoxicity Effects | No information available. |
| Mobility            | No information available. |
| Biodegradation      | Inherently biodegradable. |
| Bioaccumulation     | Does not bioaccumulate.   |

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in accordance with local regulations

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

Transportation information-DOT/IATA/IMDG

Not dangerous goods. Be available for any mode of transportation.

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

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

Safety, health and environmental regulations/legislation specific for the substance or mixture---no data available

Chemical Safety Assessment---For this product a chemical safety assessment was not carried out

\*\*\*\* SECTION 16 - OTHER INFORMATION\*\*\*\*

For research use only

**Reported by:**

Company Name : ACROBIOSYSTEMS INC

Date: 10/22/2021