# Safety Data Sheet

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### Product Identifiers

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|---|---|
| **Product Name:** | Recombinant SARS-CoV-2 Spike S1 (D614G, E154K, E484Q, L452R, P681R) Protein [His] |
| **Catalog Number:** | DAGC594 |
| **Relevant Identified Uses:** **( Disclaimer)** | For research and laboratory use only. Not for diagnostic, therapeutic, drug, household or other uses. |
| **Ingredients Information:** | This product contains serum, peptide antigen or protein antigen (as specified on the product datasheet), mostly in buffered solution. Protective agent is added to some antigens, and a chemical preservative is also usually added. See individual product datasheet for information and refer to guidance below. |

### Company Identifiers

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|---|---|
| **Company:** | 45-1 Ramsey Road Shirley, NY 11967, USA |
| **Tel:** | 1-631-624-4882 |
| **Fax:** | 1-631-938-8221 |
| **E-mail:** | info@creative-diagnostics.com |
| **Internet:** | www.creative-diagnostics.com |

## SECTION 2: Composition/Information on Ingredients

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|---|---|
| **See individual datasheet:** | 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 3: HAZARDS IDENTIFICATION

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|---|---|
| **Hazard:** | See individual product datasheet for information and refer to guidance below. |

**Bio-Hazard:** Reduce direct handling to a minimum and wear appropriate protective clothing.

**Composition Hazard:**

**Buffers:** NR: BDH Hazard Class System.
Corresponds to UN Hazard Classification.

**Chelatings:**

**Preservatives:** None

**Protective agents:** None

**Stability And Reactivity:**

**Thermal decomposition:** > 275°C (527 deg F).

**Conditions to avoid:** Humidity; Contact with water, acids, heavy metals (lead, copper), metal salt, bromine, methylene chloride, carbon disulfide, sulfuric acid, halogenated, hydrocarbons.

**Reaction Hazard:** May liberate toxic gas.

**Decomposition Hazard:** Nitrous gas

**Caution:** MAY BE HARMFUL IF SWALLOWED.
Do not ingest. Wash thoroughly after handling.

**Potential Acute Health Effects**

**Routes of Entry:** Dermal contact. Eye contact. Inhalation. Ingestion.

**Eyes:** Eye contact may cause transient eye irritation. (BSA)

**Skin:** Causes skin irritation. May be fatal if absorbed through the skin.

**Inhalation:** Highly toxic if swallowed (R28): Causes irritation of mouth, pharynx, gullet and gastrointestinal tract.
Mucosal irritation, cough, dyspnea, pulmonary edema after lag time.

**Ingestion:** Ingestion may cause allergic reaction characterized by a rash. (BSA)

**Sensitizing effects:** Not known.

**Industrial handling. :** Low hazard. (BSA)

## SECTION 4: First Aid Measures

**General advice:** Consult a doctor and show this safety data sheet.

**Eye contact:** Flush eyes with plenty of water for at least 10 minutes, occasionally lifting the upper and lower eyelids.
Get medical attention if symptoms occur.

**Skin contact:** Immediately wash skin with copious amounts of soap and water for at

least 15 minutes.
Remove contaminated clothing and wash before reuse.
Get medical attention if discomfort persists.

**If inhaled:** Remove to fresh air and monitor breathing.
Give oxygen if breathing becomes difficult, give artificial respiration if breathing stops.
Get medical attention if symptoms appear.

**If ingested:** Rinse mouth thoroughly with water. Do not induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person.
Get medical attention if symptoms appear.

**Notes to physician:** No specific antidote. Medical staff must contact Poison Control Center.
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## SECTION 5: Fire-Fighting Measures

**Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special exposure hazards:** Nature of decomposition products not known.

**Precautions for fire-fighters:** ire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**PFurther information:** No data available.

## SECTION 6: Accidental Release Measures

**Personal precautions:** Immediately contact emergency personnel. Use suitable protective equipment. Evacuate personnel to safe areas.
Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.
Dispose cloth in accordance with local disposal guidelines.

**Environmental precautions:** Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

**Cleaning up:** Avoid creating dusty conditions and prevent wind dispersal.

## SECTION 7: Handling And Storage

**Handling:** Do not ingest. Wash thoroughly after handling.

**Storage:** As directed on individual product datasheet.

## SECTION 8: Exposure Controls/ Personal Protection

**Engineering Controls:** Use in a fume hood where applicable. Ensure laboratory is equipped with a safety shower and eye wash station.

**Personal Protective:** Safety glasses; Face shield; Lab coat; Rubber or plastic gloves; Respirator if needed.

## SECTION 9: Physical And Chemical Properties

**Physical state:** Liquid or lyophilized powder.

**Odor:** Little to none.

**Solubility in water:** Miscible in all proportions.

**Additional information:** No data available.

## SECTION 10: Stability And Reactivity

**Chemical stability:** Stable under recommended transport or storage conditions.

**Reactivity:** Stable under normal handling conditions.

**Hazardous reactions:** Will not occur under normal transport or storage conditions.

## SECTION 11: Toxicological Information

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

**Ingestion:** There may be irritation of the throat.

**Skin:** There may be mild irritation at the site of contact.

**Eyes:** There may be irritation and redness.

**Additional information:**

**Thiomersa:** Toxic. Irritant to eyes and skin.
Avoid ingestion or contact with skin and eyes.

**Bronidox:** Avoid direct contaction of the concentrated chemical with the skin and mucous membrane.

## SECTION 12: Ecological Information

**Toxicity:** Sodium azide and Proclin 300 contained are toxic to fish and wildlife. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

## SECTION 13: Disposal Considerations

**Waste product:** Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.

**Contaminated Packaging :** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.

## SECTION 14: Transport Information

**IATA / ADR /DOT-US / IMDG**
Not regulated in the meaning of transport regulations.

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| **UN number** | Not Applicable |
| **UN proper shipping name** | Not Applicable |
| **Transport hazard class(es)** | Not Applicable |
| **Packing group** | Not Applicable |
| **Environmental hazards** | Not Applicable |
| **Special precautions for user** | Not Applicable |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not Applicable.

## SECTION 15: Regulatory information

**US Federal Regulations**

**SARA 313**
This product is not regulated by SARA.

**Clean Air Act,Section 12 Hazardous Air Pollutants(HAPs)(see 40 CFR 61)**
This product does not contains HAPs.

**US State Regulations**

**California Proposition 65**
This product dose not contain any Proposition 65 chemicals.

**WHMIS Hazard Class**
Non-controlled

This product has been classified in accordance with this hazard criterial of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## SECTION 16: Other Information

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s).

## Notice to reader

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

CD provides this information in good faith and is based on best of our present knowledge. This SDS is provided without warranty of any kind. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.

**End of Safety Data Sheet**