

**Safety Data Sheet**

Product name: SARS-CoV2-RBD (variants) lyophilized protein sample  
Product number: 01/02 Print date: 07.12.2020 (Version: 1.0) Revision date: 07.12.2020

**SECTION 1: Identification of the substance/mixture and of the company****1.1 Product identifier**

SARS-CoV2-RBD (variants) lyophilized protein preparation.

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Laboratory chemical, do not ingest or inject. For research use only. Not for drug, household, or other uses.

**1.3 Details of the supplier of the safety data sheet**

**Company:** bisy BIOS GmbH

Pachern-Hauptstraße 189b, 8075 Hart bei Graz

**E-mail:** office@bisybios.at

---

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Hazard statements:**

H317: May cause an allergic skin reaction.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statements:**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

**Response phrases:**

P342 + P311 IF experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P333 + P313 IF skin irritation or rash occurs: Get medical advice/attention.

P304 + P340 IF inhaled: Remove person to fresh air and keep comfortable for breathing.

**2.3 Other hazards**

No information

---

**SECTION 3. Composition/information on ingredients****3.2 Mixtures****Description of the mixture:****Safety Data Sheet**

Product name: SARS-CoV2-RBD (variants) lyophilized protein sample  
Product number: 01/02 Print date: 07.12.2020 (Version: 1.0) Revision date: 07.12.2020

Lyophilized protein from culture supernatant of *Komagataella phaffii* (*Pichia pastoris*) strains expressing recombinant SARS-CoV-2 RBD (buffer for lyophilization: 10 mM potassium phosphate buffer pH 7.4).

---

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice:**

Move out of dangerous area.

Do not leave the victim unattended.

Show this safety data sheet to the doctor in attendance.

**If inhaled:**

Call a physician or poison control centre immediately.

If unconscious, place in recovery position and seek medical advice.

**In case of skin contact:**

If on skin, rinse well with water.

**In case of eye contact:**

Flush eyes with water as a precaution.

Remove contact lenses.

Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

**In case of ingestion:**

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

---

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media:**

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

**Unsuitable extinguishing media:**

High volume water jet.

**Hazardous combustion products:**

No hazardous combustion products are known.

**Flammable properties and hazards, Flash Pt, Explosive Limits:**

No data available.

**Safety Data Sheet**

Product name: SARS-CoV2-RBD (variants) lyophilized protein sample  
Product number: 01/02 Print date: 07.12.2020 (Version: 1.0) Revision date: 07.12.2020

**5.1 Advice for fire fighters****Fire Fighting Instructions:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

---

**SECTION 6: Accidental release measures****6.1 Protective precautions, protective equipment and emergency procedures**

Avoid raising and breathing dust and provide adequate ventilation.  
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**6.2 Environmental precautions**

Take steps to avoid release into the environment, if safe to do so.  
Prevent product from entering drains.

**6.3 Methods and material for containment and cleaning up**

Contain spill and collect, as appropriate.

---

**SECTION 7: Handling and storage****7.1 Precautions to be taken in handling****Advice on safe handling:**

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid contact with skin and eyes.  
Avoid prolonged or repeated exposure.  
Smoking, eating and drinking should be prohibited in the application areas.  
Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**Advice on protection against fire and explosion:**

Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

**Hygiene measures:**

Wash hands before breaks and at the end of workday.

**7.2 Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Electrical installations/working material must comply with the technological safety standards.  
Recommended storage temperature 4 °C to - 20 °C.

---

**Safety Data Sheet**

Product name: SARS-CoV2-RBD (variants) lyophilized protein sample  
Product number: 01/02 Print date: 07.12.2020 (Version: 1.0) Revision date: 07.12.2020

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**8.2 Exposure controls****Personal protective equipment****Eye / Face protection:**

Eye wash bottle with pure water. Wear safety goggles.

**Hand protection material:**

Wear protective gloves.

**Skin and body protection:**

Wear lab coat. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

**Respiratory protection:**

In the case of dust or aerosol formation use respirator with and approved filter. Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

---

**SECTION 9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

**Appearance:** Solid

**Color:** White

**Odor:** Characteristic

**Odor Threshold:** No data available

**Boiling point / boiling range:** No data available

**Melting point / melting range:** No data available

**Flash point:** Not applicable

**Ignition Temperature:** No data available

**Water solubility:** Soluble

**Upper explosion limit:** No data available

**Lower explosion limit:** No data available

**Vapor pressure:** No data available

**Density:** No data available

**Viscosity:** No data available

**9.2 Other information**

Hygroscopic.

---

**Safety Data Sheet**

Product name: SARS-CoV2-RBD (variants) lyophilized protein sample  
Product number: 01/02 Print date: 07.12.2020 (Version: 1.0) Revision date: 07.12.2020

**SECTION 10: Stability and reactivity****10.1 Reactivity and chemical stability**

No decomposition if stored and applied as directed.

**10.2 Possibility of hazardous reactions**

No decomposition if stored and applied as directed.

**10.3 Hazardous decomposition products**

None known.

---

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute Toxicity:**

No data available.

**Skin corrosion/irritation:**

May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation:**

Product dust may be irritating to eyes, skin and respiratory system.

**Respirators or skin sensitization:**

May cause sensitization.

**Repeated dose toxicity:**

No data available.

---

**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish, daphnia and other aquatic invertebrates:**

No data available.

**12.1 Persistence and degradability/bioaccumulative potential**

No data available.

**12.2 Mobility in soil**

No data available.

---

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Safety Data Sheet**

Product name: SARS-CoV2-RBD (variants) lyophilized protein sample  
Product number: 01/02 Print date: 07.12.2020 (Version: 1.0) Revision date: 07.12.2020

**Product:**

Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

**Contained packaging:**

Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

---

**SECTION 14: Transport information**

Not regulated as a dangerous good.

---

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not applicable.

**15.2 Chemical safety assessment**

Not applicable.

---

**DISCLAIMER: For R&D use only. Not for drug, household or other uses.**

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"