

Material Safety Data Sheet Proteins

Date of Issue Mar. 20, 2020

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

SUBSTANCE: PROTEIN (2019 Coronavirus SARS-CoV-2 Spike S1RBD protein)

FAMILY: PROTEINS FROM MAMMALIAN CELLS (for research purposes only)

SECTION 2: HAZARD IDENTIFICATION

The toxicity of this compound is unknown

POTENTIAL HEALTH EFFECTS:

Inhalation: not determined

Skin Contact: not determined

Eye contact: not determined

Ingestion: not determined

S24 Avoid contact with skin

S24/25 Avoid contact with eyes.

S28 After contact with skin or eyes, wash immediately with plenty of water

S36/37/39 Wear suitable protective clothing, gloves and eye face protection

SECTION 3: COMPOSITION, INFORMATION ON INGREDIENTS

Component: amino acids bonded into a chain

CAS number: not available

EC number: not available

SECTION 4: FIRST AID MEASURES

INHALATION: remove from exposure immediately. Use expired air resuscitation if needed, seek medical advice.

SKIN CONTACT: Remove contaminated clothing, jewelry, etc. immediately. Wash contact area with soap and large amounts of water (15 minutes minimum). Seek medical advice if needed.

EYE CONTACT: Wash eyes immediately with copious amounts of water or saline, raising upper and lower eyelids to irrigate under the lids. Seek medical advice if needed. **INGESTION:** If vomiting occurs, ensure patient does not choke on their vomit. Seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard. Dust air mixture may ignite or explode.

EXTINGUISHER MEDIA: Dry chemical, water or foam extinguisher.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE: Wearing safety glasses and suitable gloves, sweep the material into an appropriate container for disposal. Do not raise dust. Do not allow material to enter sewers. Wash and ventilate area after clean up is complete.

SECTION 7: HANDLING AND STORAGE

Store in a tightly closed container at -80°C. Avoid contact from the material. Avoid repeated or prolonged exposure. Lab should be equipped with a safety shower and eye wash station. Wash hands thoroughly after handling.



SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

As part of general hygiene/safety procedures good laboratory practice should be followed in the handling of all chemical substances. Avoid contact with this substance. Wear appropriate protective clothing, including appropriate gloves and safety glasses. Avoid prolonged or repeated exposure to the material. Wash hands thoroughly after handling the material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Usually clear liquid
Melting point: Not determined
Flash point: Not determined
Water solubility: Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable at -20°C or -80°C temperatures
Incompatibilities: Not determined
Hazardous combustion: Upon thermal decomposition, may emit toxic gases.

SECTION 11: TOXOLOGICAL INFORMATION

Not determined.

SECTION 12: ECOLOGICAL INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

County, State and Federal regulations change frequently. Check with your authorities and dispose of in accordance with those regulations.

SECTION 14: TRANSPORT INFORMATION

No classification assigned.

SECTION 15: REGULATORY INFORMATION

Safety phrases:
822: S24/25: S26:

S36/37/39: S45:

Do not breathe dust. Avoid contact with eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye face protection.
In case of accident or you feel unwell, seek medical advice immediately

SECTION 16: OTHER INFORMATION

Avoid contact with material. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Qualified experienced professionals should only handle material. The above information is believed to be correct but does not purport to be all-inclusive and shall be used as a guide for experienced personnel. We shall not be held liable for any damage resulting from the handling or from contact with the above product.

END OF MSDS