

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 06.08.2020

Version No: 1.00

Revision: 06.08.2020

### 1 Identification of the substance/mixture and of the company/undertaking

**Product identifier****Trade name:****SARS-CoV-2 Trimeric Spike Antigen****BSV-COV-PR-32 (25 µg), BSV-COV-PR-33 (100 µg), BSV-COV-PR-34 (500 µg) (LMNG)****Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the preparation:** Laboratory chemicals**Uses advised against:** No further relevant information available.**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

BioServUK Ltd  
The Innovation Centre, 217 Portobello  
S1 4DP, Sheffield, UK  
Tel.: +44 (0) 114 224 2235  
E-mail: info@bioservuk.com

**Emergency telephone number:** +44 (0) 114 224 2235 (during business hours)

### 2 Hazards identification

**Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

**Label elements****Labelling according to Regulation (EC) No 1272/2008** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Other hazards****Results of PBT and vPvB assessment****PBT:** Not determined.**vPvB:** Not determined.

### 3 Composition/information on ingredients

**Chemical characterisation:** Mixtures**Dangerous components:** Void

### 4 First aid measures

**Description of first aid measures****General information:**

No special measures required.

If symptoms persist consult doctor.

**After inhalation:** Supply fresh air.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:**

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:** Rinse mouth.

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**Information for doctor:****Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**No further relevant information available.

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## 5 Firefighting measures

**Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

**Advice for firefighters****Protective equipment:** Wear self-contained respiratory protective device.**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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## 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

Wear protective clothing.

Avoid formation of dust.

Keep away from ignition sources.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose of the material collected according to regulations.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## 7 Handling and storage

**Handling:****Precautions for safe handling**

Prevent formation of dust.

Any unavoidable deposit of dust must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

**Information about fire and explosion protection:**

Dust can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Store away from oxidising agents.**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.(Contd. on page 3)

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**Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

#### Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### Exposure controls

#### Personal protective equipment:

#### General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not necessary if room is well-ventilated.

#### Protection of hands:

Protective gloves and protective skin cream

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing

### 9 Physical and chemical properties

#### Information on basic physical and chemical properties

#### General Information

#### Appearance:

**Form:** Liquid

**Colour:** Clear

**Odour:** Characteristic

**Odour threshold:** Not determined.

**pH-value:** Not applicable.

#### Change in condition

**Melting point/freezing point:** Not determined.

**Initial boiling point and boiling range:** Not applicable.

**Flash point:** Not determined.

**Flammability (solid, gas):** Not determined.

**Ignition temperature:** Not determined.

**Decomposition temperature:** Not determined.

**Explosive properties:** Product does not present an explosion hazard.

#### Explosion limits:

**Lower:** Not applicable.

**Upper:** Not applicable.

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<b>Oxidising properties</b>	No
<b>Vapour pressure:</b>	Not applicable.
<b>Density:</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with water:</b>	Insoluble.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.

Other information No further relevant information available.

### 10 Stability and reactivity

**Reactivity** No further relevant information available.  
**Chemical stability** No decomposition if used and stored according to specifications.  
**Thermal decomposition / conditions to be avoided:**  
 No decomposition if used according to specifications.  
**Possibility of hazardous reactions** No dangerous reactions known.  
**Conditions to avoid** No further relevant information available.  
**Incompatible materials:** No further relevant information available.  
**Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

**Information on toxicological effects**  
**Acute toxicity** Based on available data, the classification criteria are not met.  
**Primary irritant effect:**  
**Skin corrosion/irritation** Based on available data, the classification criteria are not met.  
**Serious eye damage/irritation** Based on available data, the classification criteria are not met.  
**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.  
**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
**Germ cell mutagenicity** Based on available data, the classification criteria are not met.  
**Carcinogenicity** Based on available data, the classification criteria are not met.  
**Reproductive toxicity** Based on available data, the classification criteria are not met.  
**STOT-single exposure** Based on available data, the classification criteria are not met.  
**STOT-repeated exposure** Based on available data, the classification criteria are not met.  
**Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological information

**Toxicity**  
**Aquatic toxicity:** Based on available data, the classification criteria are not met.  
**Persistence and degradability** No further relevant information available.  
**Behaviour in environmental systems:**  
**Bioaccumulative potential** No further relevant information available.  
**Mobility in soil** No further relevant information available.  
**Results of PBT and vPvB assessment** Not determined.

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**Other adverse effects** No further relevant information available.

### 13 Disposal considerations

**Waste treatment methods**

**Recommendation:** Must be specially treated adhering to official regulations.

**Uncleaned packaging**

**Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

**UN-Number**

**ADR/RID/ADN, IMDG, IATA** Void

**UN proper shipping name**

**ADR/RID/ADN, IMDG, IATA** Void

**Transport hazard class(es)**

**ADR/RID/ADN, IMDG, IATA**

**Class** Void

**Packing group**

**ADR/RID/ADN, IMDG, IATA** Void

**Environmental hazards:** Not applicable.

**Special precautions for user** Not applicable.

**Transport in bulk according to Annex II of**

**MARPOL73/78 and the IBC Code:** Not applicable.

**Transport/Additional information:** Not dangerous according to the above specifications.

**UN "Model Regulation":** Void

### 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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