

Printing date 11/17/2021

Revision date 11/17/2021

Page 1/11

### **1** Identification

- · Product identifier
- · Trade name: SARS-CoV-2 (B.1.351) Spike reagent
- Article number: 502205
- Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. It is the responsibility of the purchaser to determine suitability for other applications.
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: Cayman Chemical Co.
   1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

## 2 Hazard(s) identification

· Classification of the substance or mixture		
GHS0	8 Health hazard	
STOT RE 2	H373 May cause damage to organs through prolonged or repeated exposure.	
<b>₩</b> ₩ GHS0	5 Corrosion	
Eye Dam. 1	H318 Causes serious eye damage.	
<b>С</b> Сняс	7	
Acute Tox. 4	H302 Harmful if swallowed.	
Skin Irrit. 2	H315 Causes skin irritation.	
Skin Sens. 1	H317 May cause an allergic skin reaction.	
STOT SE 3	H335 May cause respiratory irritation.	
	(Contd. on page 2)	

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## Trade name: SARS-CoV-2 (B.1.351) Spike reagent

Aquetic Acute 3       H402 Harmful to aquetic life.         Aquetic Chronic 3       H412 Harmful to aquetic life with long lasting effects.         • Label elements       The product is classified and labeled according to the Globally Harmonized System (GHS).         • Hazard pictograms       • • • • • • • • • • • • • • • • • • •			(Contd. from page 1)
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(Contd. on page 3)	P501		national/international
		regulations.	
			(Contd. on page 3)

Printing date 11/17/2021

Revision date 11/17/2021

(Contd. from page 2)

#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

· Classification system:

· NFPA ratings (scale 0 - 4)

300

Health = 3 Fire = 0 Reactivity = 0

### · HMIS-ratings (scale 0 - 4)

HEALTH\*3Health = \*3FIRE0Fire = 0REACTIVITY0Reactivity = 0

#### · Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

## **3 Composition/information on ingredients**

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous compo	nents:		
CAS: 7647-14-5 RTECS: VZ472500	Sodium chloride	45.718%	
CAS: 7758-11-4 RTECS: TC558000	Potassium phosphate dibasic 0	25.79%	
CAS: 9048-46-8 RTECS: AY929600	Albumin, bovine 0	21.492%	
CAS: 7778-77-0 RTECS: TC661550	Potassium phosphate, Monobasic 0	6.251%	
CAS: 26172-55-4 RTECS: NX815685	Methylchloroisothiazolinone 0	0.004%	
	Methylisothiazolinone	≥0.0015–<0.025%	
· Other ingredients	· Other ingredients		
194491-31-1 EDTA	, tetrasodium salt hydrate	0.742%	
Recombinant SARS-CoV-2 Spike Protein		0.001%	

· Additional information:

The specific chemical identity of composition and exact percentage is being withheld as a trade secret. The specific chemical identity and exact percentage is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of paragraph §1910.1200.

## **4 First-aid measures**

#### · Description of first aid measures

- · General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 4)

-1) US ----

Printing date 11/17/2021

Revision date 11/17/2021

#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

#### · After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Immediately call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed
- May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### **5 Fire-fighting measures**

- Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

A solid water stream may be inefficient.

- Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
   Wear protective equipment. Keep unprotected persons away.
   Environmental precautions: Do not allow product to reach sewage system or any water course.
   Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
   Methods and material for containment and cleaning up: Use neutralizing agent. Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- 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.
- Protective Action Criteria for Chemicals

· PAC-1:		
	Potassium phosphate dibasic	13 mg/m³
	Potassium phosphate, Monobasic	9.6 mg/m <sup>3</sup>
26172-55-4	Methylchloroisothiazolinone	0.6 mg/m³
· PAC-2:		
	Potassium phosphate dibasic	140 mg/m³
7778-77-0	Potassium phosphate, Monobasic	110 mg/m³
		(Contd. on page 5)

(Contd. from page 3)

Printing date 11/17/2021

Revision date 11/17/2021

#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

26172-55-4	Methylchloroisothiazolinone	(Contd. from page 4) 6.6 mg/m <sup>3</sup>
· PAC-3:		
7758-11-4	Potassium phosphate dibasic	830 mg/m³
7778-77-0	Potassium phosphate, Monobasic	630 mg/m³
26172-55-4	Methylchloroisothiazolinone	40 mg/m <sup>3</sup>

## 7 Handling and storage

#### · Handling:

#### · Precautions for safe handling

Thorough dedusting.

- Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components 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.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.
- Breathing equipment:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. (Contd. on page 6)

Printing date 11/17/2021

Revision date 11/17/2021

#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

(Contd. from page 5) Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties
Appearance:	
Form:	lyophilized
Color:	Not determined.
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.

US

## Safety Data Sheet acc. to OSHA HCS

Printing date 11/17/2021

Revision date 11/17/2021

#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

		(Contd. from page 6)
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Soluble.	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
VOC content:	0.00 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

## **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- 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:

· LD/LC50 values that are relevant for classification:

Oral	LD50	1,057 mg/kg	
7647-14-5 Sodiu	um chloride		
Oral	LDLO	1,000 mg/kg (man)	
	TDLO	650 ml/kg (man)	
	LD50	4,000 mg/kg (mouse)	
		3,000 mg/kg (rat)	
	LD50	4 g/kg (mouse)	
Inhalative	LC50	320 mg/m³ (mouse)	
	TCLO	0.63 mg/m³ (hmn)	
	LCLO	29,300 mg/m³/7h (mouse)	
Irritation of skin	Irritation	500 mg/24h (rabbit)	
Irritation of eyes	Irritation	100 mg/24h (rabbit)	
	Intraperitoneal LD50	2,602 mg/kg (mouse)	
	Subcutaneous LD50	31.6 mg/kg (rat)	
	Intravenous LD50	59.5 mg/kg (rat)	

Printing date 11/17/2021

Revision date 11/17/2021

### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

		(Contd. from page 7
	Data	15 mg/3D (hmn)
	Subcutaneous LD50	3 g/kg (mouse)
9048-46-8 Albu		
	Intraperitoneal TDLO	0.2 pph (mouse)
7778-77-0 Pota	ssium phosphate, Mo	nobasic
Oral	LDLO	4,640 mg/kg (rat)
<ul> <li>on the eye: Str</li> <li>Sensitization:</li> <li>Additional toxi</li> <li>The product sh preparations:</li> <li>Harmful Irritant</li> <li>Carcinogenic of IARC (International)</li> </ul>	itant to skin and mucou ong irritant with the dan Sensitization possible th <b>cological information</b> lows the following dan	ger of severe eye injury. nrough skin contact. : gers according to internally approved calculation methods fo
	Toxicology Program)	
•	redients is listed.	
· OSHA-Ca (Occ	upational Safety & He	alth Administration)
None of the ing	redients is listed.	
2 Ecological i	nformation	
Persistence an Behavior in en Bioaccumulati Mobility in soil Ecotoxical effe Remark: Harm	vironmental systems: ve potential No further No further relevant info ects: ful to fish logical information:	ther relevant information available. relevant information available.
	lass 2 (Self-assessmen	

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

- Harmful to aquatic organisms
- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

(Contd. on page 9)

US

Printing date 11/17/2021

Revision date 11/17/2021

#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

(Contd. from page 8)

### **13 Disposal considerations**

· Waste treatment methods

#### · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

## **14 Transport information**

14 Hanopole Information	
· UN-Number · DOT, IMDG, IATA	not regulated
<ul> <li>UN proper shipping name</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated
<ul> <li>Transport hazard class(es)</li> </ul>	
· DOT, ADN, IMDG, IATA · Class	not regulated
<ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex II MARPOL73/78 and the IBC Code</li> </ul>	of Not applicable.
· UN "Model Regulation":	not regulated

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· Section 355	(extremely hazardous substances):	
None of the	ingredients is listed.	
· Section 313	(Specific toxic chemical listings):	
None of the	ingredients is listed.	
· TSCA (Toxi	c Substances Control Act):	
7647-14-5	Sodium chloride	ACTIVE
7758-11-4	Potassium phosphate dibasic	ACTIVE
9048-46-8	Albumin, bovine	ACTIVE
7778-77-0	Potassium phosphate, Monobasic	ACTIVE
26172-55-4	Methylchloroisothiazolinone	ACTIVE
	Methylisothiazolinone	ACTIVE
		(Contd. on page 10)

Printing date 11/17/2021

Revision date 11/17/2021

#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

(Contd. from page 9)

· Hazardous Air Pollutants
None of the ingredients is listed.
· Proposition 65
· Chemicals known to cause cancer:
None of the ingredients is listed.
· Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
• Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
· Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

None of the ingredients is listed.

#### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 11/17/2021 / -
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit **REL: Recommended Exposure Limit** 

(Contd. on page 11)

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#### Trade name: SARS-CoV-2 (B.1.351) Spike reagent

(Contd. from page 10)

Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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