
SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Product name	Verino [®] Pro SARS-CoV-2 Ag Rapid Test
Chemical description/Application	The Verino [®] Pro SARS-CoV-2 Ag Rapid Test includes test strips and extraction solution that determine whether infected with SARS-CoV-2 based on whether it appears color. For in vitro diagnostic use only.
Supplier	VivaChek Biotech (Hangzhou) Co., Ltd., Level 2, Block 2, 146 East Chaofeng Rd., Yuhang Economy Development Zone, Hangzhou, 311100, Zhejiang, PRC. Phone: 86-571-8918-2700 Fax: 86-571-8918-2733

Issue date: Nov 17, 2020

Version: 2.0

2. HAZARDS IDENTIFICATION

Hazard class and label elements of the product according to Regulation (EC) No. 1272/2008 [EU-GHS/CLP]:

GHS Hazard class	Non-hazardous substance or mixture.
GHS label elements	Pictogram(s): None Pictogram(s): None
Hazard statements	Not applicable.
Other Hazards	None.
Hazard description	Physical and chemical hazards: Non-flammable, no special combustion and explosion characteristics. Health hazards: None Environmental hazards: None

3. COMPOSITION /INFORMATION ON INGREDIENTS

The Verino[®] Pro SARS-CoV-2 Ag Rapid Test Strip is stored in a sealed aluminum foil bag with desiccant, and the extraction solution is pre-filled in a sealed pouch. Each test kit contains the following chemicals.

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Component(s)		Content, %	CAS No.	Classification
Extraction solution	Water	To 100	7732-18-5	Not Classified
	NaCl	0.4683	7647-14-5	Not Classified
	Casein Na	0.2667	9005-46-3	Not Classified
	SDS	0.1000	151-21-3	Acute Tox. 4 (Oral); H302 Skin Corr. 2; H315 Eye Corr. 1; H318 Aquatic Chronic 3; H412
	Na ₂ HPO ₄	0.0613	7558-79-4	Not Classified
	K ₂ HPO ₄	0.0138	7778-77-0	Not Classified
	Proclin300	0.0009	55965-84-9	Acute Tox. 3 (Oral); H301 Acute Tox. 3 (Skin); H311 Skin Corr. 1B; H314 Skin sen. 1; H317 Eye Corr. 1; H318 Acute Tox. 3 (Inh.); H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
Test device	SARS-CoV-2 nucleocapsid protein mAb-1	0.42	N/A	Not Classified
	SARS-CoV-2 nucleocapsid protein mAb-2	0.21	N/A	Not Classified
	GAM	0.42	N/A	Not Classified

4. FIRST-AID MEASURES**Description of first aid measures**

General advice Show this material safety data sheet to the doctor in attendance.
After receiving the first-aid measure required, consult a physician if necessary.

Skin advice Remove contaminated clothing and shoes.
Wash off with mild soap and plenty of water.
If skin irritation occurs or persists, consult a physician immediately.

Eyes contact Check for and remove any contact lenses, occasionally lifting the upper and lower eyelids. Immediately flush eyes with running water, disappear until the chemical residues so far.

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Provide a readily-accessible eyewash facility and quick-drench safety shower.
Do not rubbing eyes with hand.
If eye irritation occurs or persists, consult a physician immediately.

Inhalation Move exposed person to fresh air. Maintain an open airway. Keep person warm and at rest.
If breathing is irregular, provide artificial respiration or oxygen by trained personnel.
Get medical attention if adverse health effects persist or are severe.

Ingestion Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest.
If material has been swallowed and the exposed person is conscious, give small quantities of water to drink.
Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

Most important acute and delayed symptoms/effects

The most important known symptoms and effects are described in section 2 and/or in section 11.

Immediate/special treatment

Continue with first aid measures. Treat symptomatically and supportively.
Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Extinguishing agents

Suitable extinguishing agents

Use dry sand, dry chemical or CO₂ foam extinguishing.
Water spray can be used to cool fire exposed containers/materials.
Use extinguishing media most appropriate for the surrounding fire.

Unsuitable extinguishing agents

Do not uses a solid water stream as it may scatter or spread fire.

Special hazards

If this product is involved in a fire, the following can be released: Carbon oxides, sodium oxides, etc.

Fire precautions and measures

Firefighters must wear self-contained breathing apparatus, wear full body fire suit, fire extinguishing in the upwind.
As far as possible will be transferred to empty containers from the scene.

Keep the fire water spray containers cooling, until the end of fire.

If the containers in the fire ground have been color, must be evacuated immediately.

Isolated accident scene, prohibit access.

Receiving and processing of fire, to prevent environmental pollution.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution

No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material, avoid slipping.

Avoid breathing steam.

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

Methods for cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Wash the leakage with plenty of water.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth.

Solid: Pick up and arrange disposal without creating dust. Collect mechanically. Keep in suitable, closed containers for disposal.

Contaminated absorbent material may pose the same hazard as the spilt product.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Handling

Put on appropriate personal protective equipment (see section 8).

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Avoid contact eyes. Avoid breathing steam.

Provide suitable exhaust equipment. Operate in a well-ventilated place.
Normal measures for preventive fire protection. Keep away from heat/sparks/open flames/hot surfaces.
Observe good housekeeping procedures and hygiene practices
Handling carefully to prevent damage the packaging and container.
Wash thoroughly after handling.
Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.
Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.

Storage

Store the test kit in a cool, dry place between 2-30 °C. Keep container tightly closed.
Keep away from sparks, open flames and high temperatures, away from incompatible materials (see section 10).
Keep container tightly closed and sealed until ready for use.
Equipped with corresponding varieties and number of fire equipment and spill contingency processing equipment.
Keep out of reach children and pets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

There is no known exposure limits prescribed by the state.

Engineering controls

Ensure adequate ventilation, especially in confined areas.
Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection



General requirements

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use multi-function respirator.

Eye protection

Wear safety glasses when there is a potential for eye contact.

Skin and body protection

Wear suitable protective clothing and boots.

Hand protection

Wear protective gloves.
Check protective gloves prior to each use for their proper condition.
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.

9. PHYSICAL-CHEMICAL PROPERTIES

Appearance	The test kit contains a test strip that is a plastic card with a sample hole and reaction window, and the clear extraction solution. The plastic card is white, the extraction solution is clear and colorless.
Odor	Odorless
Odor threshold	No date
Melting point (°C)	No date
Boiling point (°C)	No date
Melting Point (°C)	No date
Flash point (°C)	No date
Evaporation rate	No date
Steam pressure (20°C)	No date
Relative density	No date
Partition coefficient n-octanol/water	No date
Decomposition (°C)	No date
Auto ignition temperature(°C)	No date
pH value	No date
Explosion limit [% (v/v)]	No date
Relative vapor density	No date
Solubility	Test device: Insoluble in water; Extraction solution: Soluble in water
Flammability (solid, gas)	Test device: Non-flammable; Extraction solution: Not applicable
Oxidizing properties	The substance does not belong to oxidizing substances

10. STABILITY AND REACTIVITY

Stability	The product is chemically stable
Reactivity	Stable under recommended storage and handling conditions.

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Incompatible materials	Strong oxidizing agents, strong acids and strong bases.
Conditions to avoid	In contrast to the nature of the material, direct sunlight, high temperature and open fire
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Component(s)	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation)
KH ₂ PO ₄	7778-77-0	No data	Rabbit: >4640mg/kg	No data
Na ₂ HPO ₄	7558-79-4	Rat: 17000mg/kg	No data	No data
SDS	151-21-3	Rat: 1288mg/kg	No data	Rat: >3900mg /m ³ /1H
NaCl	7647-14-5	Rat: 3000mg/kg Mouse: 4000mg/kg	Rabbit: >10000mg/kg	Rat: >42000mg /m ³ /1H
Proclin300	55965-84-9	Rat: 53mg/kg Mouse: 60mg/kg	No data	No data

Skin corrosion/irritation

Component(s)	CAS No.	Species	Route	Value	Result	Type of test
Na ₂ HPO ₄	7558-79-4	Rabbit	Skin	500mg/24H	Mild	Standard Draize test
NaCl	7647-14-5	Rabbit	Skin	500mg/24H	Mild	Standard Draize test
SDS	151-21-3	Rabbit	Skin	25mg/24H	Moderate	Standard Draize test

Eye corrosion/irritation

Component(s)	CAS No.	Species	Route	Value	Result	Type of test
Na ₂ HPO ₄	7558-79-4	Rabbit	Eye	500mg/24H	Mild	Standard Draize test
NaCl	7647-14-5	Rabbit	Eye	100mg/24H	Moderate	Standard Draize test
SDS	151-21-3	Rabbit	Eye	100mg/24H	Moderate	Standard Draize test

Respiratory Sensitization

These products are not known to cause human respiratory sensitization.

Skin Sensitization

These products are not known to cause skin sensitization

Germ cell mutagenicity

According to the existing data, the product is not classified

Carcinogenicity

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity

According to the existing data, the product is not classified.

Specific target organ toxicity	According to the existing data, the product is not classified.
Aspiration hazard	According to the existing data, the product is not classified.
Additional reproductive toxicity hazards	According to the existing data, the product is not classified.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	According to the existing data, the product is not classified.
Persistence and degradability	The products are usually with natural biodegradable.
Bio accumulative potential	The potential for bioaccumulation of this material in aquatic organisms is low.
Mobility in soil	Will penetrate into the soil, will be dissolved in the soil material.

Results of PBT and vPvB assessment

Component(s)	CAS No.	Results of PBT and vPvB assessment (According to (EC) No. 1907/2006)
Water	7732-18-5	Not belong to PBT/vPvB
KH ₂ PO ₄	7778-77-0	Not belong to PBT/vPvB
Na ₂ HPO ₄	7558-79-4	Not belong to PBT/vPvB
NaCl	7647-14-5	Not belong to PBT/vPvB
Proclin300	55965-84-9	Not belong to PBT/vPvB
Casein Na	9005-46-3	Not belong to PBT/vPvB
SDS	151-21-3	Not belong to PBT/vPvB

13. DISPOSAL CONSIDERATIONS

Waste disposal

Residual waste	<p>Before disposal should refer to the relevant national and local laws and regulation. The generation of waste should be avoided or minimized wherever possible.</p> <p>You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system or transfer to a suitable container and arrange for collection by specialized disposal company if recycling is not feasible.</p>
Contaminated packaging	<p>The generation of waste should be avoided or minimized wherever possible.</p> <p>Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</p>
Disposal considerations	Dispose of container and unused contents in accordance with national

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and local relevant regulations laws.

14. TRANSPORT INFORMATION

Transport rules According to IATA DGR 62st Edition for transportation, IMO International Maritime Dangerous Goods Code (Amendment 39-18), European Agreement Concerning the International Carriage of Dangerous Goods by Road. The products are not subject to IATA DGR, IMDG and ADR/RID.

Road transport (UN-ADR)

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard Class Main: Not regulated
Sub risk: None

Packaging group Not regulated

Special provisions None

Hazard code None

Air transport (ICAO-IATA/DGR)

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard Class Main: Not regulated
Sub risk: None

Packaging group Not regulated

Special provisions None

ERG code None

SEA transport (IMDG-CODE)

UN number Not regulated

UN proper shipping name Not regulated

Transport hazard Class Main: Not regulated
Sub risk: None

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Packaging group Not regulated**Special provisions** None**ERG code** None**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Regulatory information: Reference to the local, national, US, EU, CA and international regulations.

CAS No.	TSCA	IECSC	EINECS/ELINCS/NLP	DSL/NDSL
7732-18-5	Listed	Listed	Listed	Listed DSL
7778-77-0	Listed	Listed	Listed	Listed DSL
7558-79-4	Listed	Listed	Listed	Listed DSL
7647-14-5	Listed	Listed	Listed	Listed DSL
55965-84-9	Unlisted	Listed	Unlisted	Listed DSL
9005-46-3	Listed	Listed	Listed	Listed DSL
151-21-3	Listed	Listed	Listed	Listed DSL

16. OTHER INFORMATION

Reference IARC
OECD: The Global Portal to Information on Chemical Substances
U.S. Department of Transportation: ERG
Germany GESTIS-database on hazard substance
CAMEO Chemicals
NLM: ChemIDplus
EPA: Integrated Risk Information System
IPCS: The International Chemical Safety Cards (ICSC)

Disclaimer The above information is believed to be correct but we cannot guarantee the absolute universality and accuracy and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.