

Safety Data Sheet

SECTION 1: IDENTIFICATION

1.1 Product Identification

Product Name	Catalog Number
SARS-CoV-2 (COVID-19) Nucleocapsid Protein Sandwich ELISA Kit	GTX535824
SARS-CoV-2 (COVID-19) Spike RBD Protein Sandwich ELISA Kit	GTX536267
SARS-CoV-2 (COVID-19) Spike-ACE2 Binding / Neutralization Assay Kit	GTX536401

Intended Use of the Product:

For research and laboratory use only. Not for diagnostic, therapeutic, drug, household or other uses.

1.2 Company Identification

Company: GeneTex International Corporation (Global)
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SECTION 2: HAZARDS IDENTIFICATION

#	Name	Physical form	Hazardous Ingredient	Concentration	CAS No.
1	HRP-Conjugate Solution	Odorless and colorless/faint yellow, liquid	Proclin 300	0.05%	96118-96-6
3	Assay Diluent	Odorless and colorless/faint yellow, liquid	Proclin 300	0.05%	96118-96-6
4	Control/Standard (Lyophilized)	Odorless and white/faint yellow powder/ solid	Proclin 300	0.05%	96118-96-6
5	20× Wash Buffer	Odorless and colorless, liquid	*		
7	TMB Solution	Odorless and colorless, liquid	*		
8	Stop Solution 	Slight pungent and colorless, liquid	Sulfuric acid	2.8%	7664-93-9

* Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

2.1. Proclin 300

Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral	Category 4, H302
Acute toxicity, Inhalation	Category 4, H332
Skin corrosion	Sub-category 1B, H314
Serious eye damage	Category 1, H318
Skin sensitization	Category 1, H317
Short-term (acute) aquatic hazard	Category 1, H400
Long-term (chronic) aquatic hazard	Category 1, H410

Label Elements (GHS-US):



Signal Word (GHS-US): Danger

Hazard statements:

H302 + H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2. Sulfuric acid

Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to metals	Category 1
Skin Corrosion/irritation	Category 1 A
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

Target Organs - Respiratory system.

Label Elements (GHS-US):



Signal Word (GHS-US): Danger

Hazard statements:

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H303	May be harmful if swallowed.
H335	May cause respiratory irritation.

Precautionary statements:

P234	Keep only in original container.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse
P305	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other items

Hazard Classification: None
Label Elements (GHS-US): None
Signal Word (GHS-US): None
Hazard statements: No known significant effects or critical hazards
Precautionary statements: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. HRP-Conjugate Solution, Assay Diluent, Control/Standard (Lyophilized)

Chemical Characterization: Mixture

Hazardous Ingredient: Proclin 300, 0.05%

Proclin 300

Component	CAS-No	Concentration	Classification
Modified alkyl carboxylate	*	2.5-10%	Aquatic Chronic 4; H413
Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)	55965-84-9	3-5%	Eye Dam. 1; Acute Tox. 3; Acute Tox. 2; Skin Corr. 1C; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1; H318, H301, H310, H330, H314, H317, H400, H410 Concentration limits: >= 0,6 %: Skin Corr. 1C, H314; 0,06 - < 0,6 %: Skin Irrit. 2, H315; 0,06 - < 0,6 %: Eye Irrit. 2, H319; >= 0,0015 %: Skin Sens. 1A, H317; >= 0,0015 %: Skin Sens. 1A, H317; >= 0,6 %: Eye Dam. 1, H318; M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 100

* A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

3.2. Stop Solution

Hazardous Ingredient: Sulfuric acid (7664-93-9) 2-3%

Any percentage shown as a range is to protect confidentiality or is due to batch variation.

3.3. Other Solution

Chemical Characterization: Mixture

The product contains no other substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

SECTION 4: FIRST AID MEASURES

Description of First-aid Measures

Inhalation:	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Ingestion:	Rinse mouth with water. If you feel unwell, seek medical advice.
Skin Contact:	Rinse skin immediately with plenty of water. Seek medical attention if irritation occurs.
Eye Contact:	Rinse with thoroughly with plenty of water for at least 20 minutes. Remove contact lenses. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray; suitable for surrounding area.
Special Hazards Arising from the Substance or Mixture:	Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.
Advice for Firefighters:	Wear self-contained breathing apparatus (SCBA) operated in positive pressure mode and appropriate protective gear to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Immediately contact emergency personnel. Use suitable protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas. Dispose cloth in accordance with local disposal guidelines.

6.2. Environmental Precautions

Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

6.3. Methods and Materials for Containment and Cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Do not ingest. Use suitable protective equipment. Wash thoroughly after handling.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Keep container securely sealed and upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

Contains no substances with occupational exposure limit values.

8.2. Personal Protective Equipment (PPE)

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. Avoid contact with the eyes and skin.

Eye Protection:

Safety glasses or face shield.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Protection of Hands: Compatible chemical-resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.

Respiratory Protection: Particulate.

Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Form: Liquid
	Color: Colorless
Odor:	None
pH:	No data available
Melting Point:	No data available
Boiling Point:	No data available
Flash Point:	No data available
Ignition temperature:	No data available
Explosion limits:	No data available
Vapor Pressure @ 20°C:	No data available
Specific Gravity @ 20°C (68°C):	No data available
Vapor Density:	No data available
Percent Volatile:	No data available
Evaporation Rate:	No data available
Flammable Limits in air % by volume:	No data available
Solubility in/ Miscibility with Water@20°C:	soluble

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions
Incompatibility:	No dangerous reaction known under conditions of normal use
Conditions to Avoid:	None identified
Hazardous Reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Proclin 300

Mixture

Acute toxicity:	LD50 Oral : 862 mg/kg (Rat) Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Acute toxicity estimate Inhalation - 4 h - 13,89 mg/l (Calculation method) Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract
Skin corrosion/irritation	LD50 Dermal: 2.800 mg/kg (Rabbit) Skin - Rabbit Result: Corrosive Mixture causes burns.
Serious eye damage/eye irritation	Eyes - Rabbit Result: Corrosive to eyes Mixture causes serious eye damage. Risk of blindness.
Respiratory or skin sensitization	Guinea pig Result: May cause sensitization by skin contact. Mixture may cause an allergic skin reaction.
Specific target organ toxicity	single exposure: No data available repeated exposure: No data available

11.2. Sulfuric acid

Acute toxicity:	LD50 Oral: 2140 mg/kg (Rat) LC50 Inhalation LC50 85 - 103 mg/m ³ (Rat) 1 h
Skin corrosion/irritation	Causes severe irritation and or burns
Serious eye damage/eye irritation	Causes severe irritation and or burns
Mutagenic Effects	Mutagenic effects have occurred in experimental animals.
Carcinogenicity	IARC: Group 1 Carcinogenic to Humans NTP: Known Carcinogen ACGIH: A2 Suspected Human Carcinogen
Specific target organ toxicity	single exposure: Respiratory system repeated exposure: No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Sulfuric acid: Freshwater Fish-LC50: > 500 mg/L, 96 h static (Brachydanio rerio); Water Flea-EC50: 29 mg/L/24 h Other Components: No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

This substance is considered to be non-hazardous for transport.

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.
DOT Hazard Class: Not Applicable
UN/NA Number: Not Applicable

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Not Applicable

Hazard Class: Not Applicable

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

UN Number: Packing Group: Not Applicable

Hazard Class: Not Applicable

SECTION 15: REGULATORY INFORMATION

United States (TSCA)	All ingredients are on the inventory or exempt from listing.
Europe	This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
SARA 302 Components	Sulfuric Acid (Stop Solution): CAS 7664-93-9
SARA 313 Components	Sulfuric Acid (Stop Solution): Concentration <5%
SARA 311/312 Hazards	Sulfuric Acid (Stop Solution): Reactive, Acute Health Hazard

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

This SDS was prepared on 2021/09/09, version 1.0.

Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.