# Elabscience Biotechnology Co., Ltd MATERIAL SAFETY DATA SHEET

Product name:	Monkeypox Virus (MPXV) IgG ELISA Kit	
Catalog Number:	E-EL-E620	
Application	For research use only	
Company:	Elabscience Biotechnology Co., Ltd	
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SDS Number:	2617050069	
SDS Date:	2017-05-22	

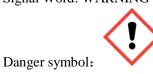
# SECTION1 PRODUCT AND COMPANY IDENTIFICATION

# SECTION2 HAZARDS IDENTIFICATION

<b>Component Items</b>	Physical form	Hazardous	Concentration	CAS No.	
	Odorless and	Proclin 300	0.04%	96118-96-6	
Positive Control	colorless, liquid	Proclin 500			
Negative Control	Odorless and	Dra -11: - 200	0.04%	96118-96-6	
	colorless, liquid	Proclin 300			
Assay diluent	Odorless and	Proclin 300	0.04%	96118-96-6	
	colorless, liquid	FIOCHII 500			
HRP Conjugate	Odorless and	Proclin 300	0.04%	96118-96-6	
The Conjugate	colorless, liquid	11001111 500	0.0470		
Substrate	Odorless and	Carbamide	0.05%	124-43-6	
	colorless, liquid	peroxide(CP)	0.05%	124-43-0	
Stan as had an	Slight pungent and	Sulfuric acid	0.80/	7664 02 0	
Stop solution	colorless, liquid	(H <sub>2</sub> SO <sub>4</sub> )	9.8%	7664-93-9	

# **1. HAZARD STATEMENT**

Classification according to GHS. Signal Word: WARNING



# 2.1.1 Proclin 300

H317: May cause an allergic skin reaction.

# 2.1.2 Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)

H315: Causes skin irritation. H319: Causes serious eve irritation.

# 2.1.3 Carbamide peroxide (CP)

H302: Harmful if swallowed.H312: Harmful in contact with skin.H332: Harmful if inhaled.H335: May cause respiratory irritation.

# 2. PRECAUTION STATEMENT

Classification according to GHS

# 2.2.1 Proclin 300

P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P333+313: If skin irritation or rash occurs: Get medical advice/attention.

# 2.2.2 Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P332+313: If skin irritation occurs: Get medical advice/attention.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# 2.2.3 Carbamide peroxide (CP)

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+352: IF ON SKIN: Wash with plenty of soap and water.

SECTIONS INFORMATION ON INGREDIENTS							
Ingredient	Percent	CAS No.	EC No.				
Sodium chloride	0.8%	7647-14-5	231-598-3				
Potassium chloride	0.02%	7447-40-7	231-211-8				
Disodium phosphate dodecahydrate	0.1%	10039-32-4	231-448-7				
Potassium dihydrogen	0.02%	7778-77-0	231-913-4				

# SECTION3 INFORMATION ON INGREDIENTS

6th Edition, revised in Jan, 2021

phosphate			
Tris	1.5%	77-86-1	201-064-4
EDTA	0.1%	60-00-4	200-449-4
Glycerol	5%	56-81-5	200-289-5
Tween20	0.5%	9005-64-5	500-018-3
BSA	1%	9048-46-8	
Mannitol	2%	69-65-8	200-711-8
PVP40	0.35%	9003-39-8	
Proclin 300	0.04%	96118-96-6	
Carbamide peroxide(CP)	0.05%	124-43-6	204-701-4
Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> )	1.5%	7664-93-9	231-639-5
Citric acid	0.2%	77-92-9	201-069-1
3,3',5,5'- tetramethylbenzidine	0.05%	54827-17-7	259-364-6
Water	86.77%	7732-18-5	231-791-2

# SECTION4 FIRST-AID MEASURES

Classification according to GHS

#### 4.1 General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 4.2 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### 4.3 In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### 4.4 In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### 4.5 If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# SECTION5 FIRE FIGHTING MEASURES

#### 5.1 Suitable extinguishing media

Suitable: Water spray, alcohol-resistant foam, dry chemical, carbon dioxide or appropriate foam. For small fires, use media such as "alcohol" foam, dry chemical or carbon dioxide.

For large fires, apply water from as far as possible. Use large quantities of water applied as a mist or spray. Solid streams of water may be ineffective. Cool affected containers with flooding quantities of water.

#### **5.2 Special precautions for fire-fighters**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

#### 5.3 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.

# SECTION6 ACCIDENTAL RELEASE MEASURES

#### 6.1 Person-related safety precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

#### 6.2 Measures for environmental protection

Prevent further leakage or spillage if safe to do so. Do not let enter drains. Discharge into the environment must be avoided.

#### 6.3 Measures for containment and cleaning

Contain spillage, and then collect with non-combustible absorbent material (eg. sand, diatomaceous earth, vermiculite). Place in a container for disposal according to local regulations. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

# SECTION7 HANDLING AND STORAGE

#### 7.1 Handling

- Wear appropriate protective clothing and safety gloves.
- Avoid inhalation.
- Avoid contact with eyes, skin and clothing.
- Mechanical exhaust required.
- Keep away from ignition sources, heat and flame.
- No smoking at working site.
- Incompatibilities: Strong oxidizing agents, Strong acids. Handling and unloading should be light, to prevent packaging broken, damp and cause losses.
- Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

#### 7.2 Storage

- Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- Keep away from heat, sparks and flame.
- Keep away from sources of ignition.
- Incompatible: Strong oxidizing agents, Strong acids.
- Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

# SECTION8 EXPOSURE CONTROL/PPE

#### 8.1 Engineering Controls

Mechanical exhaust required. Safety shower and eye bath.

#### 8.2 Personal Protective Equipment

- Respiratory: Government approved respirator if needed.
- Eye/face: Chemical safety goggles if needed.
- Clothing: Wear appropriate protective clothing.
- Hand/skin: Protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Body protection: Wear suitable protective clothing according to the concentration and amount of the substance at the workplace.

#### **8.3 Other Protect**

No smoking, drinking and eating at working site. Wash thoroughly after handling.

# SECTION9 PHYSICAL/CHEMIICAL PROPERTIES

#### 9.1 Proclin 300

- a) Appearance: Liquid
- b) Odour: No data available
- c) Odour threshold: No data available
- d) pH 4.1 at 100 g/L
- e) Melting point/freezing point: -40  $^{\circ}$ C
- f) Initial boiling point and boiling range: 189  $\, \, \mathbb{C}$
- g) Flash point: 118  $\,^{\circ}$ C closed cup
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapour pressure: No data available
- l) Vapour density: No data available
- m) Relative density: 1.03 g/cm<sup>3</sup>
- n) Water solubility: Soluble
- o) Partition coefficient: noctanol/water: No data available
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

#### 9.2 Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)

a) Appearance: Colorless Liquid

- b) Odor: Pungent
- c) Odor threshold: No data available
- d) pH: ~1
- e) Melting point/freezing point: No data available
- f) Boiling point/Boiling range: No data available
- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammablitiy (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapor density: No data available
- l) Vapor pressure: No data available
- m) Relative density: No data available
- n) Solubility in/Miscibility with Water: Soluble
- o) Partition coefficient: noctoanol/water: No data available
- p) Auto igniting: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: No data available

#### 9.3 Carbamide peroxide (CP)

- a) Appearance: White crystalline
- b) Odour: No data available
- c) Odour threshold: No data available
- d) pH: No data available
- e) Melting point/freezing point: 90 93 ℃ lit.
- f) Initial boiling point and boiling range: No data available
- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapour pressure: 23.3 mmHg at 30 °C
- l) Vapour density: No data available
- m) Relative density: 1.390 g/cm<sup>3</sup> at 20 °C
- n) Water solubility: No data available
- o) Partition coefficient: noctanol/water: No data available
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: > 60 °C
- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: The substance or mixture is classified as oxidizing with the category 3.
- Other safety information: Bulk density 0.6 0.7 g/L

# SECTION10 STABILITY AND REACTIVITY

# 10.1 Reactivity No data available 10.2 Chemical stability Stable under recommended storage conditions 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid Heat, flames and sparks 10.5 Incompatible materials Strong oxidizing agent, Light sensitive, Alcohols, Organic materials, Heavy metals, Powdered metals, Strong reducing agents, Amines, Mercaptans.

#### 10.6 Hazardous decomposition products

Other decomposition products: No data available

Hazardous decomposition products formed under fire conditions: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.

# SECTION11 TOXICOLOGICAL INFORMATION

#### 11.1 Proclin 300

Acute toxicity LD<sub>50</sub> Oral - Rat - 862 mg/kg LD<sub>50</sub> Dermal - Rabbit - 2,800 mg/kg Skin corrosion/irritation Skin - Rabbit Result: Corrosive Serious eye damage/eye irritation Eyes - Rabbit Result: Corrosive to eyes Respiratory or skin sensitisation - Guinea pig Result: May cause sensitisation by skin contact. Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### 11.2 Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)

Acute toxicity LD<sub>50</sub> Oral - Rat - 1530 mg/kg LD<sub>50</sub> Dermal - Rabbit - 2730 mg/kg LC<sub>50</sub> Inhalation- Rat - 850 mg/m<sup>3</sup> 1 h Skin corrosion/irritation: Can cause severe burns Serious eye damage/irritation: Can cause severe burns Respiratory or skin sensitization: No data available Germ cell mutagenicity: No data available Carcinogenicity: No data available Reproductive toxicity: No data available Aspiration hazard: Can cause severe burns Ingestion: May be harmful if swallowed. Causes burns. Skin contact: May be harmful if absorbed through skin. Causes burns. Eye contact: Causes eye burns.

#### 11.3 Carbamide peroxide (CP)

LD<sub>50</sub> = 4060 mg/kg (skin-rat) Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

# SECTION12 ECOLOGICAL INFORMATION

12.1 Proclin 300
Ecotoxicity
No data available
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Results of PBT and vPvB assessment
No data available
Other adverse effects
No data available

#### 12.2 Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)

Ecotoxicity
No data available
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Results of PBT and vPvB assessment
No data available
Other adverse effects
No data available

**12.3 Carbamide peroxide (CP)** Ecotoxicity No data available
Persistence and degradability
No data available
Bioaccumulative potential
No data available
Mobility in soil
No data available
Results of PBT and vPvB assessment
No data available
Other adverse effects
No data available

# SECTION 13 DISPOSAL CONSIDERATION

#### 13.1 Disposal methods

Dispose of waste in accordance to applicable national, regional, or local regulations. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### 13.2 Contaminated packaging

Dispose in the same manner as unused product.

# SECTION 14 TRANSPORT INFORMATION

**RID/ADR:** Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA: Non-Hazardous for Air Transport.

IMO: Non-Hazardous for Sea Transport.

#### SECTION15 REGULATORY INFORMATION

This material safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008 and its amendments.

# **SECTION 16 OTHER INFORMATION**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.