MATERIAL SAFETY DATA SHEET

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name:	Mouse sIgA (Secretory Immunoglobulin A) CLIA Kit		
Catalog Number:	E-CL-M0603		
Application	For research use only		

SECTION2 HAZARDS IDENTIFICATION

Component Items	Physical form	Hazardous Ingredient	Concentration	CAS No.
Biotinylated Detection Ab	Odorless and colorless, liquid	Proclin 300	0.04%	55965-84-9
Assay diluent	Odorless and colorless, liquid	Proclin 300	0.04%	55965-84-9
HRP Conjugate	Odorless and colorless, liquid	Proclin 300	0.04%	55965-84-9
Standard	Odorless and white/faint yellow Clear powder/ solid	Proclin 300	0.04%	55965-84-9
Substrate A	Odorless and colorless, liquid	N,N-Dimethylformamide(DMF)	2%	68-12-2
		Sodium tetraphenylborate	0.05%	143-66-8
Substrate B	Odorless and colorless, liquid	Carbamide peroxide(CP)	0.05%	124-43-6

2.1 HAZARD STATEMENT

Classification according to GHS Signal Word: WARNING

Danger symbol: 2.1.1 Proclin 300 H317: May cause an allergic skin reaction. 2.1.2 N,N-Dimethylformamide(DMF) H315: Causes skin irritation. H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

2.1.3 Sodium tetraphenylborate

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

2.1.4 Carbamide peroxide(CP)

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

2.2 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 N,N-Dimethylformamide(DMF)

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

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves and protective clothing.

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

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2.3 Sodium tetraphenylborate

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

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.

P305 + P351 + P338: IF in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2.4 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.

SECTION3 COMPOSITION/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	0.12%	10039-32-4	231-448-7	
dodecahydrate	0.1276	10059-52-4		
Potassium dihydrogen	0.02%	7778-77-0	231-913-4	
phosphate	0.0276	7770-77-0		
Tris	1%	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	
Protective protein	1%	9048-46-8	232-936-2	
Luminol	0.1%	521-31-3	208-309-4	
Mannitol	2%	69-65-8	200-711-8	
PVP40	0.35%	9003-39-8		
Proclin 300	0.04%	55965-84-9		
N,N-Dimethylformamide (DMF)	0.1%	68-12-2	200-679-5	
Sodium tetraphenylborate	0.05%	143-66-8	205-605-5	
Carbamide peroxide(CP)	0.05%	124-43-6	204-701-4	
Water	88.75%	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

Appearance: Liquid Odour: No data available Odour threshold: No data available pH 4.1 at 100 g/L Melting point/freezing point: -40 °C Initial boiling point and boiling range: 189 °C Flash point: 118 °C - closed cup Evaporation rate: No data available Flammability (solid, gas): No data available Upper/lower flammability or explosive limits: No data available Vapour pressure: No data available Vapour density: No data available Relative density: 1.03 g/cm³ Water solubility: Soluble Partition coefficient: noctanol/water: No data available

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Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity: No data available Explosive properties: No data available Oxidizing properties: No data available 9.2 N,N-Dimethylformamide(DMF) Appearance: Liquid Upper/lower Flammability or explosive limits: No data available Upper/lower flammability or explosive limits: No data available Odor: No data available Odor threshold: No data available Vapor density: No data available Vapor pressure: No data available pH: No data available Relative density: No data available Melting point/freezing point: No data available. Boiling point/Boiling range: No data available Partition coefficient: noctanol/water: No data available Auto igniting: No data available Flash point: No data available Decomposition temperature: No data available Water solubility: No data available Viscosity: No data available Evaporation rate: No data available Flammability (solid, gas): No data available 9.3 Sodium tetraphenylborate Appearance: White solid Odour: No data available Odour threshold: No data available pH 8 at 50 g/L at 20 °C Melting point/freezing point: 300°C Initial boiling point and boiling range: No data available Flash point: No data available Evaporation rate: No data available Flammability (solid, gas): No data available Upper/lower flammability or explosive limits: No data available Vapour pressure: No data available Vapour density: No data available Relative density: No data available Water solubility: ca.50 g/L at 20 °C - soluble Partition coefficient: noctanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available Oxidizing properties: No data available Other safety information: Bulk density 0.50 g/L 9.4 Carbamide peroxide (CP) Appearance: White crystalline Odour: No data available Odour threshold: No data available pH: No data available Melting point/freezing point: 90 - 93 °C - lit. Initial boiling point and boiling range: No data available Flash point: No data available Evaporation rate: No data available Flammability (solid, gas): No data available Upper/lower flammability or explosive limits: No data available Vapour pressure: 23.3 mmHg at 30 °C Vapour density: No data available Relative density: 1.390 g/cm3 at 20 °C Water solubility: No data available Partition coefficient: noctanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: > 60 °C Viscosity: No data available Explosive properties: No data available 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 agents, 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 LD₅₀ Oral - Rat - 862 mg/kg LD₅₀ 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 N,N-Dimethylformamide(DMF) LD₅₀ Oral - Rat - 2,800 mg/kg (N,N-Dimethylformamide) LC₅₀ Inhalation - Rat - 4 h - 9 - 15 mg/L (N,N-Dimethylformamide) LD₅₀ Dermal - Rabbit - 1,500 mg/kg (N,N-Dimethylformamide) Skin – Human (N,N-Dimethylformamide) Result: Mild skin irritation - 24 h Serious eye damage/eye irritation: No data available Eyes - Rabbit (N,N-Dimethylformamide) Result: Moderate eye irritation Mutation in mammalian somatic cells. Carcinogenicity: This product is or contains a component that is not classifiable as to its classification (N,N-Dimethylformamide) IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (N,N-Dimethylformamide) 11.3 Sodium tetraphenylborate LD₅₀ Oral - Rabbit: 288 mg/kg LD₅₀ Oral - Rat - 288 mg/kg 11.4 Carbamide peroxide(CP) LD₅₀ = 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

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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 N,N-Dimethylformamide(DMF) Ecotoxicity Toxicity to fish: flow-through test LC50 - Lepomis macrochirus (Bluegill sunfish) - 7.100 mg/L - 96 h(N,N-Dimethylformamide) (US-EPA) Toxicity to daphnia and other aquatic invertebrates: static test EC50 - Daphnia magna (Water flea) - 13.100 mg/L - 48 h(N,NDimethylformamide) (OECD Test Guideline 202) Toxicity to algae: static test EC50 - Desmodesmus subspicatus (green algae) - > 1.000 mg/L - 72 h(N,N-Dimethylformamide) (DIN 38412) Toxicity to bacteria: static test EC50 - Vibrio fischeri - 12.300 - 17.500 mg/L - 5min(N,NDimethylformamide) Remarks: (External MSDS) Persistence and degradability Biodegradability: aerobic - Exposure time 21 d(N,N-Dimethylformamide) Result: 100 % - Readily biodegradable. (OECD Test Guideline 301E) Biochemical Oxygen Demand (BOD): 900 mg/g(N,N-Dimethylformamide) Remarks: (Lit.) Theoretical oxygen demand: 1.863 mg/g(N,N-Dimethylformamide) Remarks: (Lit.) **Bioaccumulative potential** Bioaccumulation: Cyprinus carpio (Carp) - 56 d (N,N-Dimethylformamide) Bioconcentration factor (BCF): 0,3 - 1,2 (OECD Test Guideline 305C) Remarks: Does not significantly accumulate in organisms. Mobility in soil No data available Results of PBT and vPvB assessment No data available Other adverse effects Stability in water: - ca.50d(N,N-Dimethylformamide) Test substance: Water Remarks: reaction with hydroxyl radicals(calculated)(Lit.) 12.3 Sodium tetraphenylborate 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. 12.4 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.

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