

SAFETY DATA SHEET

VERSION 5.0 | REVISED: 2026-09-22

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

- 1.1 Product Name:** Chemiluminescent Immunoassay Kit (CLIA Kit)
1.2 Catalog Numbers Covered: EKU, EKN CLIA Kit Series
1.3 Recommended Use: For Laboratory Research Use Only. Not for human or animal therapeutic or clinical diagnostic use.
1.4 Company Identification: Biomatik Corporation, 4 Third Ave, Kitchener, Ontario, N2C 1N6, Canada
1.5 Contact Telephone / Email: 1-519-489-7195 | Email: info@biomatik.com
1.6 Emergency Telephone Number: 1-519-590-7717

Kit Component Summary:

Antibody Coated Microplate
Standard
Detection Reagent A
Detection Reagent B
Standard Diluent (contains ProClin 300)
Assay Diluent A (contains ProClin 300)
Assay Diluent B (contains ProClin 300)
Reagent Diluent (supplied when Detection Reagent A is lyophilized)
30X Wash Buffer
Substrate A
Substrate B (contains 1% H₂O₂)

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 (CLP/EU-GHS) and 29 CFR 1910.1200 (OSHA HazCom):

2.1 Hazard Classification by Component

- **Standard / Assay Diluents (ProClin 300 @ 0.05%):** Skin Sensitization - Category 1 (H317: May cause an allergic skin reaction).
- **Substrate B (Hydrogen Peroxide @ 1%):** Skin Corrosion/Irritation - Category 1A; Serious Eye Damage/Eye Irritation - Category 1 (H402: Harmful to aquatic life).
- **Other Kit Components:** Not classified as hazardous under GHS criteria.

2.2 GHS Label Elements & Precautionary Statements

Signal Word: WARNING

GHS Pictogram: [!] Exclamation Mark



Hazard Statements:

May cause an allergic skin reaction.
Harmful to aquatic life.

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P501: Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The kit consists of individual aqueous solutions and solid sub-components. Chemical ingredients are detailed below:

Component	Chemical / Mixture Name	CAS No.	EC No.	Index No.	Conc. %
Diluents (Standard, A, B)	ProClin 300 (Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one & 2-Methyl-4-isothiazolin-3-one)	96118-96-6	932-593-5	613-167-00-5	0.05%
Substrate B	Hydrogen Peroxide (H2O2)	7722-84-1	231-765-0	008-003-00-9	1.0%

4. FIRST AID MEASURES

First aid personnel should ensure self-protection.

Swallowing / Ingestion: If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician.

Skin Contact: If component contacts skin, immediately take off contaminated clothing or shoes. Wash skin with soap and copious amounts of water. Consult a physician.

Inhalation: If inhaled, move to fresh air. If not breathing, perform CPR and immediately consult a physician.

Eye Contact: Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Immediately consult a physician.

5. FIRE-FIGHTING MEASURES

5.1 Flammability: May be combustible at high temperatures. Flashpoints: N/A.

5.2 Extinguishing Media: Use dry chemicals.

5.3 Special Firefighting Procedures: Wear NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

5.4 Unusual Fire and Explosion Hazards: In case of fire, toxic and corrosive gases may be formed.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Use appropriate protective equipment to prevent contamination of skin, eyes, and personal clothing.

6.2 Environmental Precautions: Keep away from drains.

6.3 Clean-Up Methods & Containment: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

7.1 Safe Handling Precautions: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use normal measures for preventive fire protection.

7.2 Storage Conditions: Store according to product specifications.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters: Contains no substances with occupational exposure limit values.

- **Eye / Face Protection:** Wear approved safety goggles.
- **Skin & Body Protection:** Long-sleeved clothing and protective gloves.
- **Respiratory Protection:** In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator tested and approved under standards such as NIOSH (US) or CEN (EU).
- **Hygiene Measures:** Wash hands thoroughly after handling chemical products and before eating, smoking, or using the toilet. Wash contaminated clothing before reusing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Component Group	Physical State & Appearance	Odor & pH Properties
Standard / Assay Diluents (ProClin 300)	Colorless liquid	Odor: N/A pH: N/A
Substrate B (1% Hydrogen Peroxide)	Colorless liquid	Odor: Pungent pH: 6.0 ~ 8.0
Other Liquid Reagents / Components	Colorless liquid / Microplate solid	Odor: N/A pH: N/A

10. STABILITY AND REACTIVITY

10.1 Chemical Stability: The product is stable under recommended storage conditions.

10.2 Conditions to Avoid: For Diluents: Heat, moisture. For Substrate B: Light.

10.3 Incompatible Products: For Diluents: Strong acids/alkalis, strong oxidizing/reducing agents. For Substrate B: Iron and iron salts, powdered metals, copper, iron, zinc, nickel.

10.4 Hazardous Decomposition Products: Hazardous reactions will not occur under normal transport or storage conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Standard / Assay Diluents (ProClin 300):

Classified based on available data. May cause skin sensitization.

11.2 Substrate B (1% Hydrogen Peroxide):

• **Acute Toxicity:** Oral: Acute toxicity estimate Inhalation - 4 h > 40 mg/l vapor (Calculation method).

- **Skin Corrosion / Eye Damage:** No data available.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity: The environmental impact of this product has not been fully investigated.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods: Dispose of waste in accordance with applicable national, regional, or local regulations.

13.2 Contaminated Packaging: Dispose of in the same manner as unused product.

14. TRANSPORT INFORMATION

Classified according to UN Model Regulations, IMDG Code, ADR, RID, DOT, and IATA criteria:

Overland Transportation (ADR/RID): Not regulated.

Transatlantic Transportation (IMDG): Not dangerous according to specifications / Not a marine pollutant.

Air Transportation (ICAO/IATA): Not regulated.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

15.1 US Federal and State Regulations:

- **TSCA (Toxic Substances Control Act):** On TSCA Inventory (Substrate B).
- **SARA 313 Components:** Not applicable.
- **SARA 311/312 Hazards:** Acute Health Hazard (Substrate B).
- **CERCLA Reportable Quantity:** 1,000 lbs (Substrate B).
- **California Proposition 65:** Not applicable.

16. OTHER INFORMATION

16.1 Intended Use Notice: This material is sold for in vitro use or research purposes only. It is not for any human or animal therapeutic or clinical diagnostic use.

16.2 Disclaimer: Read the instructions for use before using the product. Observe the general safety regulations when handling chemicals. Good laboratory practice is the best preventive measure to avoid hazards. The information shall not be taken as being all-inclusive and is to be used only as a guide. All materials and mixtures may contain unknown hazards and should be used with caution. Since our corporation cannot control the actual methods, volumes, or conditions of use, Biomatik Corporation shall not be held liable for any damages or losses resulting from handling or from contact with the product as described herein. This information is prepared based on our present knowledge but shall not constitute a guarantee for any specific product features.

End of Safety Data Sheet