

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

1.1 Product Name: Chemiluminescent Immunoassay Kit (CLIA Kit)

1.2 Catalog Number: EKU (CLIA Kit)

1.3 Component:

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 the Detection Reagent A is lyophilized)

30X Wash Buffer

Substrate A

Substrate B (contains 1% H₂O₂)

1.4 Recommended Use: For Laboratory Research Use Only.

1.5 Company: Biomatik Corporation

4 Third Ave, Kitchener, Ontario, N2C 1N6, Canada

Telephone Number: 1-519-489-7195

Email: info@biomatik.com

Emergency Telephone Number: Chemtrec 1-800-424-9300

2. IDENTIFICATION OF SUBSTANCE/MIXTURE

2.1 Product identifiers:

Product name: Standard Diluent, Assay Diluent A, Assay Diluent B (contains Proclin 300)

2.1.1 Hazard Identification:

Classification: Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA):

ProClin 300: Skin Sens. 1; H317: May cause an allergic skin reaction.

GHS Label elements, including precautionary statements

Signal Word: WARNING

Precautionary statements:

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

P272: Contaminated work clothing should not be allowed out of the workplace.

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.

P362+P364 Take off contaminated clothing and wash it before reuse.

Other hazards: None



2.1.2 Information on Ingredients

Description - ProClin 300

Contains	CAS-No.	EC-No.	Index-No.	Content
Mixture of 5-Chloro-2-Methyl-4-Isothiazolin-3-One (26172-55-4) and 2-Methyl-4-Isothiazolin-3-One (2682-20-4)	96118-96-6	932-593-5	613-167-00-5	0.05%

2.1.3 First Aid Measures

First aid personnel should ensure self-protection.

Swallowing: If any component of this kit is swallowed, wash your mouth out with water, provided the person is conscious. Get medical attention.

Skin: If any component of this kit contacts the skin, immediately wash the skin with soap and copious amounts of water.

Inhalation: If any component of this kit is inhaled, move to fresh air. If not breathing, perform CPR and get immediate medical attention.

Eyes: If any component of this contact the eyes, flush the eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Consult a physician.

2.1.4 Fire-Fighting Measures

Flammability: May be combustible at high temperatures.

Flashpoints: N/A

Extinguishing media: Use dry chemicals.

Special fire fighting procedures: Wear NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

Unusual fire and explosion hazards: None known.

2.1.5 Accidental Release Measures

Person-related safety precautions: Use appropriate protective equipment to prevent contamination of skin, eyes, and personal clothing.

Measures for environmental protection: Keep away from drains.

Measures for containment and cleaning: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

2.1.6 Handling And Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use normal measures for preventive fire protection.

Conditions for safe storage: Store according to product specifications.

2.1.7 Exposure Controls / Personal Protection

Control parameters: Contains no substances with occupational exposure limit values.

Individual protection measures: Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Wear approved safety goggles.

Skin and body protection: Long-sleeved clothing. Protective gloves..

Respiratory protection: In case of inadequate ventilation, use a suitable respirator.

2.1.8 Physical And Chemical Properties

Appearance: Colorless liquid

Odor threshold: N/A

Melting point/range: N/A

Flash point: N/A

Flammability (solid, gas): N/A

Vapor density: N/A

Solubility: N/A

Decomposition temperature: N/A

Odor: N/A

pH: N/A

Boiling point/Boiling range: N/A

Evaporation rate: N/A

Flammability Limits in Air: N/A

Vapor pressure: N/A

Autoignition temperature: N/A

Viscosity: N/A

2.1.9 Stability And Reactivity

Stability and Reactivity: The product is stable under recommended storage conditions.

Incompatible products: Strong acids/alkalis, strong oxidizing/reducing agents.

Conditions to avoid: Heat, moisture.

Hazardous decomposition products: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

2.1.10 Toxicological Information

Acute toxicity: Classified based on available data.

Chronic toxicity: Classified based on available data.

Carcinogenicity: Classified based on available data.

Sensitization: Classified based on available data.

Target Organ Effects: Classified based on available data.

2.1.11 Ecological Information

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

2.1.12 Disposal Considerations

Disposal methods: Dispose of waste in accordance with applicable national, regional, or local regulations.
Contaminated packaging: Dispose of in the same manner as unused product.

2.1.13 Transport Information

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT, and IATA.

Overland transportation (ADR/RID): Not regulated.

Transatlantic transportation (IMDG): Not dangerous according to the above specifications.

Air transportation (ICAO/IATA): Not regulated.

2.1.14 Regulatory Information

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

US Federal and State Regulations

Toxic Substances Control Act: Not applicable

SARA 313 Components: Not applicable

SARA 311/312 Hazards: Not applicable

CERCLA Reportable Quantity: Not applicable

California Proposition 65: Not applicable

2.1.15. Other Information

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.

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, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

This information is prepared based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

2.2 Product identifiers:

Product name: Substrate B (contains 1% H₂O₂)

2.2.1 Hazard Identification:

Classification: Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA):

Skin Corrosion/Irritation - Category 1A

Serious eye damage/eye irritation - Category 1

Label elements: Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]

Signal Word: None

Precautionary statements:

H402 Harmful to aquatic life.

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards: none

2.2.2 Information on Ingredients

Contains	CAS No.	EC-No.	Index-No.	Classification	Conc.
Hydrogen peroxide	7722-84-1	231-765-0	008-003-00-9	H402	1%

2.2.3 First Aid Measures

First aid personnel should ensure self protection.

Swallowing: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician. Show this MSDS.

Skin: Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Consult a physician.

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

Eyes: Flush the eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Consult a physician immediately.

2.2.4 Fire-Fighting Measures

Extinguishing media: Use dry chemicals.

Special firefighting procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing.

Unusual fire and explosion hazards: In case of fire, toxic and corrosive gases may be formed.

2.2.5 Accidental Release Measures

Person-related safety precautions: Use appropriate protective equipment to prevent contamination of skin, eyes, and personal clothing.

Measures for environmental protection: Keep away from drains.

Measures for containment and cleaning: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

2.2.6 Handling And Storage

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

Conditions for safe storage: Store according to product specifications.

2.2.7 Exposure Controls / Personal Protection

Control parameters: Contains no substances with occupational exposure limit values.

Individual protection measures: Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Wear approved safety goggles.

Skin and body protection: Long-sleeved clothing. 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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)..

2.2.8 Physical Data

Appearance: Colorless liquid.

Odor threshold: N/A

Melting point/range: N/A

Flash point: N/A

Flammability (solid, gas): N/A

Vapor density: N/A

Solubility: N/A

Decomposition temperature: N/A

Odor: Pungent

pH: 6.0~8.0

Boiling point/Boiling range: N/A

Evaporation rate: N/A

Flammability Limits in Air: N/A

Vapor pressure: N/A

Autoignition temperature: N/A

Viscosity: N/A

2.2.9 STABILITY AND REACTIVITY

Stability and Reactivity: The product is stable under recommended storage conditions.

Incompatible products: Iron and iron salts., Powdered metals, Copper, Iron, Zinc, Nickel.

Conditions to avoid: Light. no information available.

Hazardous decomposition products: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

2.2.10 Toxicological Information

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

Skin Corrosion: No data available.

Serious Eye Damage: No data available.

Aspiration Hazard: No data available.

2.2.11 Ecological Information

Ecotoxicity: No data available.

2.2.12 Disposal Considerations

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

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

2.2.13 Transport Information

Classified according to the criteria of the UN Model Regulations as reflected in the IMDG Code, ADR, RID, DOT and IATA.

UN-Number: N/A

UN proper shipping name: Not dangerous goods

Transport hazard class(es): N/A

Packaging group: N/A

Environmental hazards: This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

Special precautions for users: No data available.

Additional Transport Information: No data available.

2.2.14 Regulatory Information

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

US Federal and State Regulations

Toxic Substances Control Act: On TSCA Inventory

SARA 313 Components: Not applicable.

SARA 311/312 Hazards: Acute Health Hazard

CERCLA Reportable Quantity: 1,000 lbs

California Proposition 65: Not applicable.

2.2.15. Other Information

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. 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, the company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. This information is prepared based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

End of MSDS