

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

**1.1 Product Name:** Enzyme-Linked Immunosorbent Assay Kit (ELISA Kit)

**1.2 Catalog Number:** EKV (ELISA 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  
TMB Substrate  
Stop Solution (contains Sulfuric Acid)

**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](mailto: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: Stop Solution (contains Sulfuric Acid)

### 2.2.1 Hazard Identification:

**Classification: Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA): Skin Corrosion/Irritation - Category 2**

**Serious eye damage/eye irritation - Category 2A**

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

**Signal Word:** WARNING

**Hazard Statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.



**Precautionary statements:**

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

P321 Specific treatment (see Section 4).

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

P337+313 If eye irritation persists: Get medical advice/attention.

P362+364 Take off contaminated clothing and wash it before reusing.

**Other hazards:** none

### 2.2.2 Information on Ingredients

Contains	CAS No.	EC-No.	Index-No.	Classification	Conc.
Sulfuric Acid	7664-93-9	231-639-5	016-020-00-8	H315, H319	9.8%
Water	7732-18-5	231-791-2	-	-	90.2%

### 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:** Move 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

**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:** 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.

## 2.2.8 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

## 2.2.9 STABILITY AND REACTIVITY

**Stability and Reactivity:** Contact with metals produces highly flammable hydrogen gas. Addition of water liberates excessive heat.

**Conditions to avoid:** Bases, Halides, Metals, Alkalis, Acetonitrile.

**Materials to avoid:** Most metals, oxidizers, reducers, bases, metal carbonates, cyanides, sulphides, carbides, oxides, metal acetylides, hydrides, halogens, organic or combustible materials, perchlorates, acetonitrile, permanganates, alcohols, picrates.

**Hazardous decomposition products:** Products formed under fire conditions: oxides of Sulphur, hydrogen gas.

## 2.2.10 Toxicological Information

**Acute toxicity:** Can cause severe burns upon contact, while the vapors or mist are corrosive and can cause severe irritation or damage to the nose, throat, and lungs. Ingestion of this product causes pain, nausea, vomiting, and may be fatal if large doses are ingested.

**Skin Corrosion:** Can cause severe burns.

**Serious Eye Damage:** Can cause severe burns.

**Aspiration Hazard:** Can cause severe burns

## 2.2.11 Ecological Information

**Ecotoxicity:** This product may affect the acidity (pH factor) in water, with a risk of harmful effects to aquatic organisms.

## 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:** UN2796

**UN proper shipping name:** Battery fluid, acid, or Sulfuric acid with not more than 51 percent acid

**Transport hazard class(es):** 8

**Packaging group:** II

**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 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**