

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

- 1.1 Product Name:** EKA Colorimetric Sandwich ELISA)
1.2 Catalog Number: EKA
1.3 Recommended Use: For Laboratory Research Use Only.
1.4 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:

15x wash buffer: 0.3% Kathon CG/ICP, 1.5% Tween-20.
Assay diluent: 0.2% Kathon CG/ICP, 0.1% Tween-20.
Ready-to-use substrate: < 0.02% Hydrogen Peroxide and < 0.1% 3,3',5,5'-Tetramethylbenzidine (TMB).
Stop solution: 2N Sulfuric Acid (H₂SO₄).

2.1.1 Hazard Identification:

Potential hazards

Some kit reagents are not considered to be hazardous according to 29 CFR 191029 CFR(d). They are mixtures that contain less than 1% hazardous chemicals and less than 0.1% carcinogenic chemicals.

Hydrogen peroxide: Carcinogen; Corrosive; Flammable Oxidizer; Organ Damage (Eyes, Respiratory system, Skin); Toxic by ingestion.

Kathon CG: Carcinogen; Corrosive; Flammable Oxidizer; Harmful by ingestion; Harmful if inhaled and extremely destructive of tissues of mucous membranes and upper respiratory tract; Organ Damage (Blood, Central Nervous System, Eye, Gastrointestinal tract, Kidney); Skin and respiratory sensitizer (causes allergies).

Sulfuric acid: Corrosive; Organ Damage (Eyes, Lungs, and Teeth).

Tween-20: Toxic by inhalation, ingestion, and skin absorption. May cause eye, skin, or respiratory system irritation.

GHS label elements, including precautionary statements

Hazard pictograms



Signal word/s

Warning

Health Hazard

Flame

Corrosion

Hazard statements

Keep away from clothing and combustible materials. Avoid breathing the fumes and vapors from kit components. Wear protective gloves, clothing, eyewear, and face protection.

Routes of entry: Avoid ingestion and inhalation; avoid contact with skin and eyes.

Threshold limit value and source: The chemical, physical and toxicological properties of these components have not been thoroughly investigated. Allergy-prone individuals should be particularly cautious with proteins or other materials of biological origin.

Carcinogenic effects data: Not available

Chronic effects of overexposure: Not available

Solubility in water: Liquids except detergents are readily miscible in water.

Hazards not otherwise classified (HNOC) or not covered by GHS – none

2.1.2 Information on Ingredients

Chemical Name	CAS-No	Weight %
Kathon CG/ICP	7664-93-9	0.5
Tween-20	7732-18-5	1.6
Hydrogen peroxide	7722-84-1	0.02
Sulfuric acid	7664-93	<2

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: Not flammable

Flashpoints: N/A

Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special firefighting 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 vapor 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: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA-approved respiratory protection should be worn. Positive-pressure-supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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: None known based on information supplied.

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: None known based on information supplied.

Chronic toxicity: None known based on information supplied.

Carcinogenicity: None known based on information supplied.

Sensitization: None known based on information supplied.

Target Organ Effects: None known based on information supplied.

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

U.S. federal regulations

SARA 302/313 components

The following components are subject to reporting levels established by SARA Title III, Section 302/313:

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Kathon CG/ICP	7664-93-9	0.5
Tween-20	7732-18-5	1.6
Hydrogen peroxide	7722-84-1	0.02
Sulfuric acid	7664-93	<2

SARA 311/312 hazard categories

Acute health hazard	no
Chronic health hazard	no
Fire hazard	no
Sudden release of pressure hazard	no
Reactive hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

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 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