

SAFETY DATA SHEET

VERSION 5.0 | REVISED: 2026-09-22

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: EKE ELISA 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

2. HAZARDS IDENTIFICATION

Classification according to GHS, Regulation (EC) No. 1272/2008 [CLP], and 29 CFR 1910.1200 [OSHA]:

2.1 Physical Hazards: Not classified as physical hazards.

2.2 Health Hazards: Not classified as health hazards.

2.3 Environmental Hazards: Not classified as environmental hazards.

2.4 Emergency Overview: To the best of our knowledge, information, and data, we have not yet known health and environmental hazards associated with this mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is an aqueous mixture containing the following ingredients:

Ingredient Name	CAS No.	EC No.	% Concentration
Water	7732-18-5	231-791-2	99.045%
Sodium chloride	7647-14-5	231-598-3	0.8%
Disodium hydrogenorthophosphate	7558-79-4	231-448-7	0.115%
Potassium chloride	7447-40-7	231-211-8	0.02%
Potassium dihydrogen orthophosphate	7778-77-0	231-913-4	0.02%

4. FIRST AID MEASURES

Skin Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. If irritation persists, call a physician.

Inhalation Exposure: If inhaled, remove to fresh air. If necessary, get medical attention.

Oral Exposure: Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Water spray, Dry chemical, Carbon dioxide, or appropriate foam.

5.2 Firefighting Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Procedure of Personal Precaution: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust/mist.

6.2 Methods for Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

6.3 Environmental Precautions: Discharge into drains should be avoided.

7. HANDLING AND STORAGE

7.1 Safe Handling Precautions: 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 the working site. Incompatibilities: Strong oxidizing agents.

7.2 Storage Conditions: Store in a cool, dry, and well-ventilated area. Keep away from ignition sources, heat, and flame. Store in a tightly closed container. Recommended storage temperature: 2-8°C. Incompatibilities: Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering Controls: Mechanical exhaust required. Safety shower and eye bath.

- **Respiratory Protection:** Government-approved respirator if needed.
- **Eye / Face Protection:** Chemical safety goggles if needed.
- **Body Protection:** Wear appropriate protective clothing.
- **Hand / Skin Protection:** Protective gloves.
- **Hygiene Measures:** No smoking, drinking, or eating at the work site. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Property	Value
Appearance	Colorless transparent liquid	Initial Boiling Point	100°C
Odor	Weak odor	Flash Point (Closed Cup)	>96°C
pH Value	7.5 (25°C, 50.0 g/L)	Solubility	Miscible in water
Relative Density	1.008 x 10 ³ kg/m ³ (20.0°C)	Viscosity	1.074 mm ² /s (20.00°C kinematic)

10. STABILITY AND REACTIVITY

10.1 Chemical Stability: Stable under normal temperatures and pressures.

10.2 Materials to Avoid: Strong oxidizing agents.

10.3 Hazardous Polymerization: Will not occur.

10.4 Hazardous Decomposition Products: Carbon oxides, Sodium oxides, Phosphorous oxides, Potassium oxides, Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

11.1 Component Acute Toxicity Data:

- **Sodium chloride:** Rat Oral LD50: 3000 mg/kg; Rat Inhalation LC50: >42000 mg/m³/1H; Rabbit Skin LD50: >10000 mg/kg
- **Sodium dihydrogenorthophosphate:** Rat Oral LD50: 17000 mg/kg
- **Potassium chloride:** Rat Oral LD50: 2600 mg/kg
- **Potassium dihydrogen orthophosphate:** Rabbit Skin LD50: >4640 mg/kg

11.2 Skin & Eye Effects:

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

12. ECOLOGICAL INFORMATION

12.1 Component Toxicity Data:

- **Sodium chloride:** Toxicity to daphnia and other aquatic invertebrates: NOEC Daphnia 1500 mg/l (1-7 d); LC50 Daphnia magna (Water flea) 1661 mg/l (48 h)
- **Potassium chloride:** Toxicity to fish: LC50 Pimephales promelas (fathead minnow) - 880 mg/l (96 h); NOEC Pimephales promelas - 30 mg/l (7 d); LOEC Pimephales promelas - 1000 mg/l (7 d). Toxicity to daphnia: EC50 Daphnia magna - 83 mg/l (48 h)

12.2 Degradability, Bioaccumulation & Mobility:

- **Persistence and Degradability:** No data available.
- **Bioaccumulative Potential:** No data available.
- **Mobility in Soil:** No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Disposal Methods: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

RID/ADR: Non-Hazardous for Transport.

IATA: Non-Hazardous for Air Transport.

IMO: Non-Hazardous for Sea Transport.

15. REGULATORY INFORMATION

15.1 European Regulations: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

15.2 REACH / CLP Compliance: This safety data sheet complies with the requirements of (EC) No. 1907/2006 (REACH), Annex II, as amended, and Regulation (EC) No. 1272/2008 (CLP) and their amendments.

16. OTHER INFORMATION

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

16.2 Disclaimer: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Biomatik Corporation makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

End of Safety Data Sheet