

## Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name** Attoglow Western Enhancing Kit  
**Catalog #** K3172120 and K3172250  
**Manufacturer** Biochain Institute, Inc.  
39600 Eureka Drive  
Newark, CA 94560  
USA  
510.783.8588 or 1.888.762.2568  
Email: [info@biochain.com](mailto:info@biochain.com)  
**Emergency Phone #** Contact your local hazardous material control center.  
Call 911 in case of medical emergency.

### Section 2. Hazards Identification

Review approved and the most current institutional guideline, protocol, SOP(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this BCI product.

**Primary Routes of Entry:**

Skin Absorption (**No**); Dermal/skin contact (**Yes**); Eye contact (**Yes**); Inhalation (**Yes**); Ingestion (**Yes**); Chronic Exposure (**No**).

**Medical Conditions Aggravated by Exposure:** Not available.

**Potential Acute Health Effects:** Very hazardous in case of skin contact (irritant), and in case of inhalation (lung irritant). Hazardous in case of eye contact (irritant). Slightly hazardous in case of ingestion,

**Carcinogenic Effects:** Not listed by NTP, IARC or OSHA.

**Mutagenic Effects:** Not available.

**Teratogenic Effects:** Not available.

### Section 3. Composition and Information on Ingredients

**MSDS# K3172120 and K3172250**

**Component/Item (and Parts number if listed)**

- 1) Millennium Enhancer Solution: May cause eye and skin irritation.
- 2) Antibody Binding Buffer: No hazardous ingredients.
- 3) Attoglow Blocking Agent: No hazardous ingredients.

### Section 4. First Aid Measures

**Skin:** Wash exposed skin with mild soap and water. Get medical attention if irritation develops or persists.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

**Inhalation:** Move victim to fresh air. If irritation persists, get medical attention.

**Ingestion:** Do not induce vomiting. If affected person is conscious, give plenty of water to drink. Seek medical attention.

### Section 5. Fire Fighting Measures

**Flammability of the Product:** Combustible, keep away from heat, sparks and flame.

**Flash Points:** 43 C (109 F).

**Fire Fighting Procedures:**

**Small Fire:** Use DRY chemical powder or carbon dioxide.

**Large Fire:** Use carbon dioxide, water spray, fog or foam. Do not use water hose.

**Protective Clothing (Fire):** Be sure to use an approved/certified respirator or equivalent.

**Special Remarks on Fire Hazards:** Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

## Section 6. Accidental Release Measures

### Small Spill and Leak:

Wear self-contained breathing apparatus. Shut off ignition sources; no flares, smoking or flames in the area. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## Section 7. Handling and Storage

**Handling:** Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure Controls and Personal Protection

**Exposure Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work location. Consult local authorities for acceptable exposure limits.

**Eyes and Face:** Splash goggles.

**Body:** Lab coat.

**Respiratory:** Be sure to use NIOSH/MSHA approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Hands:** Gloves.

## Section 9. Physical and Chemical Properties

Component	Physical State and Appearance	Color
1) Millennium Enhancer Solution	Liquid	Light Blue
2) Antibody Binding Buffer	Liquid	Clear
3) Attaglow Blocking Agent	Solid	Pale or yellow

## Section 10. Stability and Reactivity

**Stability and Reactivity:** The product is stable

**Incompatibility with Various Substances:** Strong Acids, Alkalies and Oxidizers. Avoid contact with Aluminum, Zinc, or other reactive metals.

## Section 11. Toxicological Information

### Toxicity to Animals:

1) Millennium Enhancer Solution	LD50: Not available
2) Antibody Binding Buffer	LD50: Not available
3) Attaglow Blocking Agent	LD50: Not Available

### Chronic Effects on Humans:

**Carcinogenesis Effects:** Classified None by NIOSH.

**Developmental Toxicity:** Classified Reproductive system/toxin/female, Reproductive system/toxin/male.

### Other Toxic Effects on Humans:

Hazardous in case of eye contact (irritant). Slightly hazardous in case of ingestion.

## Section 12. Ecological Information

The product itself and its products of degradation are not toxic.

### **Section 13. Disposal Considerations**

**Waste Information:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Waste Stream:** Not available.

**Consult your local or regional authorities.**

### **Section 14. Transport Information**

Contact BCI for all transport information.

### **Section 15. Regulatory Information**

**HCS Classification**

CLASS: Target organ effects.

CLASS: Reproductive toxins

**U.S. Federal Regulations**

Clean Water Act (CWA) 311: Millennium Enhancer Solution Component;

Clean air act (CAA) 112 accidental release prevention: Millennium Enhancer Solution Component

Clean air act (CAA) 112 regulated toxic substances: Millennium Enhancer Solution Component

SARA 302/304/311/312 hazardous chemicals: Millennium Enhancer Solution Component;

**International Regulations**

EINECS: Not available.

DSCL (EEC) R36/37/38: Irritating to eyes, skin, and respiratory system

### **Section 16. Other Information**

The information contained in this SDS was obtained from sources we believe are reliable. However, the above information is provided without warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist