



## MATERIAL SAFETY DATA SHEET

### Section 1 - IDENTITY OF THE MANUFACTURER AND PRODUCT

**PRODUCT IDENTITY:** EZ Detect Test Pads  
**PRODUCT CODE #:** 1000 / 1001 / 1002 / 9810 / 9811 / 9818

**MANUFACTURER ADDRESS:** Biomerica, Inc.  
17571 Von Karman Avenue  
Irvine, CA 92614, USA

**Telephone:** 949-645-2111  
**Fax:** 949-553-1231  
**E-mail:** bmra@biomerica.com

**Telephone Number in Case of Emergency:** 800 535-5053 - InfoTrac 24 hours

### Section 2 - COMPOSITION AND INGREDIENT INFORMATION

**Chemical Nature of the Preparation:** Stable, chemical impregnated paper

**Dangerous Substances in the Preparation:** 3,3',5,5'-Tetramethylbenzidine dihydrochloride dihydrate, 6-Methoxyquinoline, Cumene Hydroperoxide, N,N-Dimethylformamide, Isopropyl Alcohol

<b>Chemical</b>	<b>CAS#</b>	<b>EC #</b>	<b>Designation</b>	<b>% w/w</b>
Tetramethylbenzidine	54827-17-7	264-769-6	Harmful	<0.01%
6-Methoxyquinoline	5263-87-6	226-077-2	Harmful	<0.01%
Cumene hydroperoxide	80-15-9	301-254-7	Oxidant	<0.01%
N,N-Dimethylformamide	68-12-2	200-679-5	Toxic	<0.01%
Isopropyl Alcohol	67-63-0	200-661-7	Flammable	<0.01%
L-Malic Acid	97-67-6	202-601-5	Harmful	<0.01%
Ascorbic Acid	50-81-7	200-066-2	Harmful	<0.01%
Polyvinylpyrrolidone K30 & K90	9003-39-8	294-352-4	Harmful	<0.01%

### Section 3 - HAZARDS IDENTIFICATION

**Chemical hazard:**

Tetramethylbenzidine is the color developing compound present in trace quantities on the EZ Detect pad. It and other compounds used in the product can be harmful if exposed directly at high concentrations. These chemicals do not represent a significant chemical hazard at the concentrations present on this product.

### Section 4 - FIRST AID MEASURES

**Skin Contact:** Not applicable.

**Eye Contact:** Not applicable.

**Inhalation:** Not applicable.

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**Ingestion:** Flush mouth with copious amounts of water, provided that the person is conscious and seek medical attention.

<b>Section 5 -</b>	<b>FIRE AND EXPLOSION DATA</b>
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**Suitable Extinguishing Media:** Any method is suitable.

**Extinguishing Media Not to be Used:** Not applicable.

**Special Fire Fighting Procedures:** Not applicable.

**Unusual Fire and Explosion Hazards:** Hazardous combustion or decomposition products.

**NFPA Rating:** Not applicable.

<b>Section 6 -</b>	<b>MEASURES IN CASE OF ACCIDENTAL SPILL</b>
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**Body Precautions:** Not applicable.

**Environmental Precautions:** Not applicable.

**Cleaning Measures:** Not applicable.

<b>Section 7 -</b>	<b>HANDLING AND STORAGE</b>
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**Handling:** Take care not to ingest.

**Storage:** Store product from 5 to 30°C.

<b>Section 8 -</b>	<b>EXPOSURE CONTROL AND PERSONAL PROTECTION</b>
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**Body Protection:** Not applicable.

**Respiratory protection:** In case of fire, wear self-contained breathing apparatus.

**Hand Protection:** Not applicable.

**Eyes Protection:** Not applicable.

**Others:** None known.

<b>Section 9 -</b>	<b>PHYSICAL AND CHEMICAL CHARACTERISTICS</b>
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**Physical State:** Printed chemical cross on paper.

**Color:** Transparent to faint yellow cross with black printing on white biodegradable paper.

**Odor:** None.

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**pH:** Not applicable.  
**Boiling Point:** Not applicable  
**Melting Point:** Not applicable  
**Flash Point:** Not applicable.  
**Auto flammability:** Will not occur.  
**Vapor Pressure:** Not applicable.  
**Water Solubility:** Not applicable.

<b>Section 10 -</b>	<b>STABILITY AND REACTIVITY DATA</b>
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**Stability:** Stable in Normal Conditions.  
**Conditions to Avoid:** None known.  
**Materials to Avoid:** Not applicable.  
**Hazardous Decomposition Products:** Not applicable.

<b>Section 11 -</b>	<b>TOXICOLOGY INFORMATION</b>
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**Effects of Dangerous Substances at the Concentrations Present in the Preparation:**

**Toxic Effects:** See Section 3.  
**Harmful Effects:** See Section 3.  
**Sensitizing Effects:** None known.  
**Carcinogenic/Mutagenic/Teratogen Effects:** None known.

<b>Section 12 -</b>	<b>ECOLOGICAL INFORMATION</b>
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None Known.

<b>Section 13 -</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**Disposal:** Used test may be disposed in waste stream.

<b>Section 14 -</b>	<b>TRANSPORTATION INFORMATION</b>
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**Road / Railway Haulage ADR/RID:** Not restricted.  
**Sea Freight IMO (IMDG):** Not restricted.  
**Air Freight IATA (ICAO):** Not restricted.

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**UN Number:** Not applicable.

<b>Section 15 -</b>	<b>OTHER REGULATORY INFORMATION</b>
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**Classification:** This preparation is classified and labeled according to EEC Directive n. 88/379.

**Symbols of Danger:** None.

**"R" Phrases Indicating Specific Risks:** Not applicable at the trace levels present in the product. See Section 3.

**"S" Phrases Indicating Caution:** Not applicable at the trace levels present in the product. See Section 3.

<b>Section 16 -</b>	<b>OTHER INFORMATION</b>
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**Recommended Use:** For research or *in vitro* diagnostic use only. Not for use on or in humans and animals.

The information contained herein is believed to be correct as of the date of issue but is provided without warranty of any kind. Biomerica shall not be held liable for any damage resulting from handling or from contact with the above product. The recipient is responsible for observing any applicable laws and guidelines. Use the product according to the package insert.



## MATERIAL SAFETY DATA SHEET

### Section 1 - IDENTITY OF THE MANUFACTURER AND PRODUCT

**PRODUCT IDENTITY: EZ Detect Positive Control**  
**PRODUCT CODE #: 1000 / 1001 / 1002 / 9812 / 9819**

**MANUFACTURER ADDRESS:** **Biomerica, Inc.**  
**17571 Von Karman Avenue**  
**Irvine, CA 92614, USA**

**Telephone: 949-645-2111**  
**Fax: 949-553-1231**  
**E-mail: bmra@biomerica.com**

**Telephone Number in Case of Emergency: 800 535-5053 - InfoTrac 24 hours**

### Section 2 - COMPOSITION AND INGREDIENT INFORMATION

**Chemical Nature of the Preparation:** Stable

**Dangerous Substances in the Preparation:** Sodium dichloroisocyanurate, dihydrate.

<b>Chemical</b>	<b>CAS#</b>	<b>EC #</b>	<b>Designation</b>	<b>% w/w</b>
Sodium dichloroisocyanurate	51580-86-0	220-767-7	chemical hazard	>99%

### Section 3 - HAZARDS IDENTIFICATION

**Chemical hazard:**

The EZ Detect Positive Control packet contains 2 grams of Sodium dichloroisocyanurate, a common bactericide, algacide and sanitizer used in dry bleaches, dishwashing compounds and scouring powders. Avoid direct contact with the compound, as it is an irritant to the skin and mucous membranes. In case of contact, wash thoroughly with water; if ingested give water, DO NOT induce vomiting, consult a physician immediately.

### Section 4 - FIRST AID MEASURES

- Skin Contact:** Remove contaminated clothing and wash the exposed skin area thoroughly with soap and water.
- Eye Contact:** Flush with copious amounts of water for at least 20 minutes. Seek medical attention.
- Inhalation:** Remove to fresh air, give oxygen if breathing becomes difficult and seek medical attention.
- Ingestion:** Flush mouth with copious amounts of water and give water to drink, provided that the person is conscious and seek immediate medical attention.

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<b>Section 5 -</b>	<b>FIRE AND EXPLOSION DATA</b>
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<b>Suitable Extinguishing Media:</b>	Flood with copious amounts of water.
<b>Extinguishing Media Not to be Used:</b>	Fire extinguishers containing ammonium compounds.
<b>Special Fire Fighting Procedures:</b>	Wear NIOSH approved self-contained breathing apparatus (SCBA) when either in confined areas or exposed to combustion products. Use water to cool fire exposed containers.
<b>Unusual Fire and Explosion Hazards:</b>	Material does not burn but, at temperatures exceeding 240°C it can undergo a slow self-sustaining decomposition producing heat and toxic gases.
<b>NFPA Rating:</b>	Health: 2, Flammability: 0, Reactivity: 1. Special Hazard Warning: OXIDIZER

<b>Section 6 -</b>	<b>MEASURES IN CASE OF ACCIDENTAL SPILL</b>
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<b>Body Precautions:</b>	Wear gloves, impermeable shoe covers and a laboratory coat.
<b>Environmental Precautions:</b>	Contain the spill to the smallest area possible. Sweep up spill avoiding dust generation.
<b>Cleaning Measures:</b>	Take care not to contaminate body, avoid inhalation of dust. Dispose of all contaminated trash in accordance with local regulations.

<b>Section 7 -</b>	<b>HANDLING AND STORAGE</b>
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<b>Handling:</b>	Take care not to ingest or inhale.
<b>Storage:</b>	Store product at room temperature.

<b>Section 8 -</b>	<b>EXPOSURE CONTROL AND PERSONAL PROTECTION</b>
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<b>Body Protection:</b>	Wear laboratory coat.
<b>Respiratory protection:</b>	In case of fire, wear self-contained breathing apparatus.
<b>Hand Protection:</b>	Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves. Change gloves when they become contaminated.
<b>Eyes Protection:</b>	Wear safety glasses or goggles when a splash hazard exists.
<b>Others:</b>	None known.

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<b>Section 9 -</b>	<b>PHYSICAL AND CHEMICAL CHARACTERISTICS</b>
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<b>Physical State:</b>	White granular solid.
<b>Color:</b>	White
<b>Odor:</b>	Slight chlorine odor.
<b>pH:</b>	6.0 – 6.5 (1% solution)
<b>Boiling Point:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Flash Point:</b>	Not applicable.
<b>Flammability:</b>	Not Flammable.
<b>Auto flammability:</b>	Will not occur.
<b>Vapor Pressure:</b>	Not applicable.
<b>Water Solubility:</b>	25 g/100ml @ 30°C.

<b>Section 10 -</b>	<b>STABILITY AND REACTIVITY DATA</b>
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<b>Stability:</b>	Stable in Normal Conditions.
<b>Conditions to Avoid:</b>	None known.
<b>Materials to Avoid:</b>	Avoid exposure to strong acids and bases, reducing agents, organic compounds, oxidizers and nitrogen containing compounds.
<b>Hazardous Decomposition Products:</b>	Nitrogen trichloride, chlorine and carbon monoxide.

<b>Section 11 -</b>	<b>TOXICOLOGY INFORMATION</b>
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**Effects of Dangerous Substances at the Concentrations Present in the Preparation:**

<b><u>Acute Exposure:</u></b>	May cause corrosive burns to mucous membranes.
<b><u>Harmful Effects:</u></b>	Chemical hazard may cause irritation to the eye following optical exposure. Dermal exposure can cause severe irritation. Inhalation may cause irritation to the nose, mouth, throat and lungs. Ingestion may cause damage to the gastrointestinal tract.
<b><u>Sensitizing Effects:</u></b>	None known.

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CODE #: 1000 / 1001 / 1002 / 9812 / 9819

**Carcinogenic/Mutagenic/Teratogen Effects:**      None known.

<b>Section 12 -</b>	<b>ECOLOGICAL INFORMATION</b>
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Aquatic toxicity	96 Hour LC50 – Fish	0.22 mg/l (Rainbow trout) 0.28 mg/l (bluegill sunfish)
Avian toxicity	Acute oral LD50	730 mg/kg (Bobwhite quail) 3300 mg/kg (Mallard duck)
	Dietary LC50	>10,000 ppm (Mallard duck) >10,000 ppm (Bobwhite quail)

<b>Section 13 -</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**Disposal:**                      Dispose according to current regional and national rules.

<b>Section 14 -</b>	<b>TRANSPORTATION INFORMATION</b>
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<b>Road / Railway Haulage ADR/RID:</b>	Not restricted.
<b>Sea Freight IMO (IMDG):</b>	Not restricted.
<b>Air Freight IATA (ICAO):</b>	Not restricted.
<b>UN Number:</b>	Not applicable.

<b>Section 15 -</b>	<b>OTHER REGULATORY INFORMATION</b>
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**Classification:**    This preparation is classified and labeled according to EEC Directive n. 88/379.

**Symbols of Danger:**                      None.

**"R" Phrases Indicating Specific Risks:**    Not available.

**"S" Phrases Indicating Caution:**        Not available.

<b>Section 16 -</b>	<b>OTHER INFORMATION</b>
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**Recommended Use:**      For in-vitro use as a positive control when using EZ Detect. Not for use on or in humans and animals.

The information contained herein is believed to be correct as of the date of issue but is provided without warranty of any kind. Biomerica shall not be held liable for any damage resulting from handling or from contact with the above product. The recipient is responsible for observing any applicable laws and guidelines. Use the product according to the package insert.