



MATERIAL SAFETY DATA SHEET

Section 1 - IDENTITY OF THE MANUFACTURER AND PRODUCT

PRODUCT GROUP: IgG Foods ELISA Kits

PRODUCT IDENTITY: IgG 14 Foods Additives ELISA	PRODUCT CODE #: 7151
IgG 45 Foods French ELISA	PRODUCT CODE #: 7185
IgG HOB 2 Foods ELISA	PRODUCT CODE #: 7186
IgG HOB 4 Foods ELISA	PRODUCT CODE #: 7187
IgG HOB 7 Foods ELISA	PRODUCT CODE #: 7189
IgG 90 Foods ELISA	PRODUCT CODE #: 7190
IgG 90 Med Foods ELISA	PRODUCT CODE #: 7191
IgG 14 Foods ELISA	PRODUCT CODE #: 7192
IgG 90 Custom Foods ELISA	PRODUCT CODE #: 7193
IgG 14 Custom Foods ELISA	PRODUCT CODE #: 7194
IgG 45 Custom Foods ELISA	PRODUCT CODE #: 7195
IgG 90 Custom Foods ELISA	PRODUCT CODE #: 7196
IgG 90 Custom Foods ELISA	PRODUCT CODE #: 7197
IgG 21 Custom Foods ELISA	PRODUCT CODE #: 7198
IgG 90 Foods Korean ELISA	PRODUCT CODE #: 7199

MANUFACTURER ADDRESS: Biomerica, Inc.
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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: Dimethyl Sulfoxide, Sulfuric Acid, Blood Components, Triton X-100, Sodium Azide, Tetramethylbenzidine Urea peroxide.

Chemical	CAS#	EC #	Designation	% w/w
Dimethyl Sulfoxide	67-68-5	200-664-3	Combustible	45%
Sulfuric Acid	7664-93-9	231-639-5	Corrosive	3.0%
Blood Components	N/A	N/A	Potential Biohazard	<1%
Triton X-100	9002-93-1	EINECS	Harmful	≤ 0.2%
Sodium Azide (in 1X)	26628-22-8	247-852-1	Highly Toxic	<0.1 %
Tetramethylbenzidine	64285-73-0	264-769-6	Harmful	<0.1%
Urea Peroxide	124-43-6	204-701-4	Oxidizing	<0.1%

Section 3 - HAZARDS IDENTIFICATION

Potential Biohazard:

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7190 to 7198

Calibrators are formulated with a buffer base, animal or human serum. The kit components that are made with human serum are tested by a United States Food and Drug Administration (USFDA) licensed method and found to be non-reactive for HIV-1, HIV-2, Hepatitis B surface antigen and HCV. Because no test method can offer absolute assurance that these agents are absent, reagents should be handled at the Biosafety Level 2, as recommended for any potentially infectious human blood product, in the United States Center for Disease Control (USCDC) and National Institute of Health (USNIH) manual "Biosafety in Microbiological Laboratories", 1988. All bovine serum products used are derived from animals of US origin, processed in USDA licensed facilities

Chemical Hazard:

Wash Buffer, Serum Diluent and Calibrators in kits are formulated with Sodium Azide as a preservative. Concentrated Sodium Azide may react with copper and lead plumbing to form explosive metal azides. It may also react with acids to form explosive hydrazoic acid. If drain disposed, flush with large amounts of water to prevent azide build-up. Avoid contact with Stop Solution containing 1N H₂SO₄ (Sulfuric Acid), an irritant to the skin and mucous membranes. Substrate Solution A contains Dimethyl Sulfoxide. In case of contact with any of these reagents, wash thoroughly with water.

Section 4 -	FIRST AID MEASURES
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| 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 15 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, provided that the person is conscious and seek medical attention. |

Section 5 -	FIRE AND EXPLOSION DATA
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| Suitable Extinguishing Media: | Chemical or water fire extinguisher. |
| Extinguishing Media Not to be Used: | None known. |
| Special Fire Fighting Procedures: | None Known. |
| Unusual Fire and Explosion Hazards: | Calibrators, Serum Diluent and Wash Buffer in kits are formulated with Sodium Azide as a preservative. Sodium Azide may react with copper and lead plumbing to form explosive metal azides that are sensitive to mechanical shock, concussion, friction and sparks. May react with acids to form explosive hydrazoic acid. Dimethyl Sulfoxide in Substrate Solution A is combustible. |
| NFPA Rating: | Health: 3, Flammability: 0, Reactivity: 2 (for concentrated Sulfuric Acid) |

Section 6 -	MEASURES IN CASE OF ACCIDENTAL SPILL
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| Body Precautions: | Wear gloves, impermeable shoe covers and laboratory coat. |
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Environmental Precautions: Contain the spill to the smallest area possible.

Cleaning Measures: Take care not to contaminate body. Neutralize a Stop Solution spill with dilute base, then absorb the material with disposable towels. Soak a Calibrator spill area with a 10% bleach solution and wipe up with disposable towels. Dispose of all contaminated trash in accordance with local regulations.

Section 7 -	HANDLING AND STORAGE
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Handling: Wear suitable personal protective equipment. Take care not to splash, spill or splatter standards, stop solution or controls.

Storage: Store kit reagents in 2 - 8° C in refrigerators designated and labeled to contain human blood products.

Section 8 -	EXPOSURE CONTROL AND PERSONAL PROTECTION
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Body Protection: Wear laboratory coat.

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

Hand Protection: Wear non-permeable rubber, neoprene, latex or nitrile disposable gloves. Change gloves when they become contaminated.

Eyes Protection: Wear safety glasses or goggles when a splash hazard exists.

Others: None known.

Section 9 -	PHYSICAL AND CHEMICAL CHARACTERISTICS
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Physical State: Liquid.

Color: Clear (Green for Calibrators and Serum Diluent, Red for Conjugate).

Odor: None detectable.

pH: 5.5 – 7.4 for all components except Stop Solution at <2 (highly acidic)

Boiling Point: Not applicable.

Melting Point: Not applicable.

Flash Point: Not applicable.

Flammability: Not Flammable.

Auto flammability: Will not occur.

Vapor Pressure: Not applicable.

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Relative Density: 1-3 mg/ml
Water Solubility: 100% soluble.

Section 10 -	STABILITY AND REACTIVITY DATA
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Stability: Stable in Normal Conditions.
Conditions to Avoid: None known.
Materials to Avoid: Lead and copper. See Hazards Identification section.
Hazardous Decomposition Products: None Known.

Section 11 -	TOXICOLOGY INFORMATION
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Effects of Dangerous Substances at the Concentrations Present in the Preparation:

Toxic Effects: Potential Biohazard.
Harmful Effects: Potential Biohazard.
Sensitizing Effects: None known.
Carcinogenic/Mutagenic/Teratogen Effects: None known.

Section 12 -	ECOLOGICAL INFORMATION
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None Known.

Section 13 -	DISPOSAL CONSIDERATIONS
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Disposal of Preparation Left: Dispose according to current regional and national rules.
Contaminated Containers: Dispose of following current regulations.

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

Section 15 -	OTHER REGULATORY INFORMATION
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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: R 35 – (for concentrated Sulfuric Acid) Causes severe burns.

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"S" Phrases Indicating Caution:

S 26 – (for concentrated Sulfuric Acid) In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

Section 16 -

OTHER INFORMATION

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.