

## MATERIAL SAFETY DATA SHEET

For Immulisa Anti-human Tissue Transglutaminase (hu tTG) Antibody – Catalog No. 1144, 1144G

Anti-human tTG IgA Positive Control (Cat # 1144-2)  
 Negative Control (Cat #2254-1)  
 Calibrators (Cat #1144A – 1144D) (1144G-A – 1144G-D)  
 Alk. Phos. Conj. (IgA Cat # 2110) (IgG Cat #2108)  
 Serum Diluent (Cat #2306)  
 Enzyme Substrate (Cat #2513)

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**MSDS Number: M1053K**

Date Prepared: 9-24-04

Prepared by: \_\_\_\_\_

The statements contained herein are offered for informational purposes only and are intended to be followed only by persons having related technical skills and at their own discretion and risk. Since conditions and manner of use are outside our control we make no warranties, express or implied, and assume no liability in connective with use of this information.

Note: Physical and health hazard information on reagent mixtures have not been determined. Any physical and health information noted is based on evaluation of data from the pure ingredients.

**SECTION 1 – MATERIAL IDENTIFICATION AND INFORMATION**

Components – Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	Other Limits Recommended
Human Serum	Varies	NA	NA	NA
Sodium Azide	0.1	0.3mg/m <sup>3</sup>	NA	NA

**SECTION 2 – PHYSICAL/CHEMICAL CHARACTERISTICS**

Boiling Point	NA	Specific Gravity (H <sub>2</sub> O = 1)	NA
Vapor Pressure (mm Hg and Temperature)	NA	Melting Point	NA
Vapor Density (Air = 1)	NA	Evaporation Rate (butyl acetate = 1)	NA
Solubility in Water	NA	Water Reactive	NA

Appearance and Odor: Clear, colorless to slightly yellow liquid; no odor.

**SECTION 3 – FIRE AND EXPLOSION HAZARD DATA**

Flash Point and Method Used	NA	Auto-Ignition Temperature	NA	Flammability Limits in Air % by Volume	NA	LEL	NA	UEL	NA
Extinguisher Media: normal extinguishing materials									
Special Fire Fighting Procedures: None known									
Unusual Fire and Explosion Hazards: None known									

**SECTION 4 – REACTIVITY HAZARD DATA**

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions to Avoid: None known
Incompatibility (Materials to Avoid)	None
Hazardous Decomposition Products	None
<b>HAZARD POLYMERIZATION</b> <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions to Avoid None known

**SECTION 5 – HEALTH HAZARD DATA**

<b>PRIMARY ROUTES OF ENTRY</b> <input type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Ingestion <input type="checkbox"/> Not Hazardous	<b>CARCINOGEN LISTED IN</b> <input type="checkbox"/> NTP <input type="checkbox"/> IARC Monograph	<input type="checkbox"/> OSHA <input checked="" type="checkbox"/> Not Listed
<b>HEALTH HAZARDS</b>	Acute: none known Chronic: none known		
Signs and Symptoms of Exposure: none known			
Medical Conditions Generally Aggravated by Exposure:			
<b>Emergency First Aid Procedures</b> – Seek medical assistance for further treatment, observation and support if necessary.			
Eye Contact : flush with copious amounts of water for 15 minutes; contact a physician			
Skin Contact: wash with germicidal soap and water for at least 15 minutes			
Inhalation: move to fresh air; contact a physician			
Ingestion: contact a physician			

**SECTION 6 – CONTROL AND PROTECTIVE MEASURES**

Respiratory Protection (Specify Type) NA			
Protective Clothing: gloves		Eye Protection: safety goggles	
<b>VENTILATION TO BE USED</b> NA	<input type="checkbox"/> Local Exhaust	<input type="checkbox"/> Mechanical (general)	<input type="checkbox"/> Special
<input type="checkbox"/> Other (specify)			
Other Protective Clothing and Equipment: NA			
Hygienic Work Practices:			

**SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES**

Steps to be Taken if Material is Spilled or Released	Absorb spill with nonreactive material (such as vermiculite, dry sand, etc.). Clean area with household bleach and paper towels.
Waste Disposal Methods	Dispose in accordance with practices employed for infectious waste. <b>WARNING</b> – Sodium azide may react with lead and copper plumbing to form highly explosive metal azides. Upon disposal of liquids, flush with large volumes of water to prevent azide buildup.
Precautions to be Taken in Handling and Storage	Store refrigerated at 2-8°C.

All human derived components have been tested and found to be negative for HB<sub>s</sub>Ag and for antibodies to HIV by FDA required tests. However, all human serum specimens and human derived products should be treated as potentially hazardous, regardless of their origin. Follow good laboratory practices in storing, dispensing, and disposing of these materials as per Biosafety in Microbiological and Biomedical Laboratories. Centers for Disease Control, National Institutes of Health, 1993 (HHS Pub. No. [CDC] 93-8395).