

Material Safety Data Sheet (MSDS)

For OTOblot™ 68kD (hsp70) Western Blot Kit #1190

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Positive Control (Catalog #1190-2)
Negative Control (Catalog #1190-3)
Serum Diluent (Catalog #2309)
Conjugate A (Catalog #2112)
Conjugate B (Catalog #2117)
Enzyme Substrate (Catalog #2513)

MSDS Number: M1025K

Date Prepared: 1-22-03

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% of 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 ³	NA	NA

SECTION 2 – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	NA	Specific Gravity (H ₂ 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
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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	
HAZARD POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions to Avoid None known

SECTION 5 – HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY <input type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Skin Absorption <input type="checkbox"/> Not Hazardous	CARCINOGEN LISTED IN <input type="checkbox"/> NTP <input type="checkbox"/> OSHA <input type="checkbox"/> IARC Monograph <input checked="" type="checkbox"/> Not Listed
HEALTH HAZARDS Signs and Symptoms of Exposure: None known Medical Conditions Generally Aggravated by Exposure: None known Emergency First Aid Procedures – 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	Acute: None known Chronic: None known

SECTION 6 – CONTROL AND PROTECTIVE MEASURES

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

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. WARNING – 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	Keep refrigerated at 2° - 8°C.

All human derived components have been tested and found to be negative for HB_sAg 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).