

OraSure Technologies, Inc.

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Effective Date: 06/02/04

IN CASE OF EMERGENCY
 CALL: 1-800-869-3538

Material Safety Data Sheet

I. GENERAL INFORMATION			
Identity (as used on label): <i>OraSure[®] HIV-1 Western Blot Kit</i>			
II. HAZARDOUS INGREDIENTS			
Principal Hazardous Components:	CAS #	%	TLV (Units)
<i>Thimerosal</i>	<i>54-64-8</i>	<i>0.01%</i>	<i>0.01 (mg/m³)</i>
<i>Sodium Azide (Conjugate)</i>	<i>26628-22-8</i>	<i>0.1%</i>	<i>0.01 (mg/m³)</i>
<i>Chlorohexidine</i>	<i>Not Available</i>	<i>0.1%</i>	<i>0.29 (ppm)</i>
<i>Glycerol (Conjugate)</i>	<i>56-81-3</i>	<i>50%</i>	<i>10 (mg/m³)</i>
<i>Glycerol (Substrate)</i>	<i>56-81-3</i>	<i>2%</i>	<i>10 (mg/m³)</i>
<i>Human Serum (Controls)</i>	<i>N/A</i>	<i><1%</i>	<i>None Established</i>
<i>Animal Serum (Controls Conjugates)</i>	<i>N/A</i>	<i><1%</i>	<i>None Established</i>
III. PHYSICAL DATA			
Boiling Point: <i>Not Determined</i>		Specific Gravity (H ₂ O=1.0): <i>Not Determined</i>	
Vapor Pressure (mmHg @ 19°C): <i>40 (ethanol)</i>		Percentage Volatile by Volume: <i>Not Determined</i>	
Vapor Density (Air=1): <i>1.59 (ethanol)</i>		pH: <i>Not Determined</i>	
Solubility in Water: <i>All are soluble</i>		Evaporation Rate (Butyl Acetate=1): <i>Not Determined</i>	
Appearance and Odor: <i>The kit contains 10 bottles of reagents and nitrocellulose strips. Reagents are liquids.</i>			
IV. FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method): <i>Substrate A: 42.8°C (109°F). Other Kit Components: None</i>		Auto Ignition Temperature: <i>Substrate A: 363°C (682°F)</i>	
Flammable Limits in Air (% by Volume): <i>LEL: 3.3% (ethyl alcohol) UEL: 19% (ethyl alcohol)</i>			
Extinguishing Media: <i>Substrate A: Use a dry Chemical, CO₂, water spray or alcohol resistant foam. Cool fire exposed containers with water.</i>			
Special Fire Fighting Procedures: <i>Firefighters should wear protective pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.</i>			
Unusual Fire and Explosion Hazards: <i>Ethyl alcohol solutions (Substrate A) are combustible and will form explosive mixtures with air.</i>			

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V. REACTIVITY DATA	
Stability: Stable	Conditions to Avoid: <i>Heat, sparks, flames and all other sources of ignition</i>
Incompatibility (Materials to Avoid): <i>Metals (aluminum, mercury, copper, lead, zinc), strong acids, strong oxidizers</i>	
Hazardous Polymerization: Will Not Occur	Conditions to Avoid: <i>Not Applicable</i>
Hazardous Decomposition Products: <i>Sodium azide can react with metals to form explosive metallic azides. Ethyl alcohol will burn to form carbon dioxide and carbon monoxide.</i>	
VI. HEALTH HAZARD DATA	
Threshold Limit Value: <i>Not Applicable</i> Carcinogen: <i>None of the components are carcinogens.</i>	
Effects of Exposure:	<p>Eye Contact – <i>May cause irritation.</i></p> <p>Skin Contact – <i>May cause mild irritation. Sodium azide and thimerosal are absorbed through the skin with symptoms similar to ingestion</i></p> <p>Inhalation of Vapors – <i>May cause respiratory irritation and possible systemic effects similar to ingestion.</i></p> <p>Ingestion – <i>May cause gastrointestinal irritation or other adverse effects. Sodium azide is highly toxic and may cause nausea, vomiting, shortness of breath, low blood pressure and collapse. The controls contain human source material. Observe routine biosafety procedures in handling the product and patient specimens and consider materials as potentially infectious.</i></p>
Primary Route(s) of Entry: <i>Not Determined</i>	
First Aid Procedures:	<p>Eye Contact – <i>Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open to assure that the entire is flushed. Get immediate medical attention.</i></p> <p>Skin Contact – <i>Immediately remove contaminated clothing. Flush contacted area with large amounts of water and then wash with soap and water. Get immediate medical attention if irritation or other symptoms develop.</i></p> <p>Inhalation – <i>Immediately remove the victim to fresh air. If breathing has stopped administer artificial respiration. Get immediate medical attention</i></p> <p>Ingestion – <i>Never give anything by mouth to an unconscious or convulsing person. If conscious, rinse mouth with milk or water. Give one or two glasses of milk or water to dilute. Get immediate medical attention.</i></p>
VII. ENVIRONMENTAL PROTECTION PROCEDURES	
Spill Response: <i>As with non-hazardous materials.</i>	
Waste Disposal Method: <i>As with biohazardous waste materials.</i>	

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VIII. SPECIAL PROTECTION INFORMATION	
Protection:	Respiratory – <i>None should be needed normally unless exceeds exposure limit, which requires a supplied air respirator.</i> Eye – <i>Standard Laboratory Safety Glasses</i> Skin – <i>Impervious gloves such as rubber recommended where contact is possible.</i>
Ventilation Recommended:	Local Exhaust – <i>General room ventilation will normally be sufficient. Where needed to maintain exposures below the exposure limits, use explosion-proof local exhaust ventilation.</i> Mechanical (General) – <i>Not Applicable</i>
Other Protective Equipment: <i>None.</i>	
IX. SPECIAL PRECAUTIONS	
Handling and Storage: <i>Recommend storage at 2-8 °C.</i>	
Other Precautions: <i>None.</i>	

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, OTI makes no warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof.

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