

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION

<u>Catalog Number(s)</u>	<u>Chemical/Common Name</u>	<u>Formula</u>	<u>Hazardous</u>
300625511 300625550	RPR 100Test RPR 500Test	Mixture	No

MSDS Coordinator
Telephone Number: (781) 861-4066

Revised: 2/16/06

Emergency Phone: (800) 926-3353

SECTION II: HAZARDOUS INGREDIENTS

COMPONENTS

Control Sera - High Positive, Low Positive and Negative Control.

The positive and negative controls are prepared from human source materials and found to be negative for the presence of HIV-1 and Hepatitis B Surface antigen (HBsAG) by an FDA approved method. Because no test method can offer complete assurance that human T-lymphotropic virus type III (HIV), Hepatitis B virus, or other infectious agents are absent, this product should be handled at Biosafety Level 2 as recommended for any potentially infectious human serum or blood specimen as outlined in the *Center for Disease Control/National Institutes of Health manual - "Biosafety in Microbiological and Biomedical Laboratories: 1984."*

Charcoal Reagent/Antigen

RPR antigen suspension of 0.003% cardiolipin, 0.020 - 0.022% lecithin, 0.09% cholesterol, 0.0125M EDTA, 0.01M Na₂HPO₄, 0.01M KH₂PO₄, 0.1% thimerosal, 10% chlorine chloride w/v, 0.01% charcoal microparticles and distilled water.

Pursuant to OSHA's *Hazardous Communications Standard* 29 CFR 1910.1200, these components are not considered to contain hazardous materials. They do, however, contain 0.1% sodium azide as a preservative for which we are providing a Material Safety Data Sheet.

Sodium Azide **CAS-Number:** 26628-22-8

Trade Names/Synonyms	Chemical Family	Molecular Formula	Molecular Weight
Azium; Azide; Kazoe	Inorganic Salt	NaN ₃	65.01

Thimerosal CAS-Number: 54-64-8

<u>Trade Names/Synonyms</u>	<u>Chemical Family</u>	<u>Molecular Formula</u>	<u>Molecular Weight</u>
Sodium merthiolate, Merthiloate, thiomersal	Salt of an Organic acid	C ₉ H ₉ HGNAO ₂ S	404.84

SECTION III: PHYSICAL DATA

Sodium Azide

<u>Appearance</u>	<u>Melting Point</u>	<u>Specific Gravity</u>	<u>Solubility In Water</u>
Colorless Crystalline Solid	275°C (527°F) decomposes	1.8 (water = 1.0)	400mg/mL

Thimerosal:

<u>Appearance</u>	<u>Melting Point</u>	<u>Specific Gravity</u>	<u>Solubility In Water</u>
White to slightly yellow solid	232-233 decomposes	N/A	1 gm/mL

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

Sodium Azide

Extinguishing Media

Sand, sodium chloride, sodium carbonate, dry chemical powder; do not use water.

Special Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions.

Thimerosal:

Extinguishing Media

Carbon dioxide, dry chemical powder, water spray.

Special Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards

Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions.

SECTION V: REACTIVITY DATA

Sodium Azide

Stability

Unstable

Conditions to Avoid

- Avoid contact with metals and acids
- Explodes when heated
- May be shock sensitive

Incompatibilities

- Acid chlorides
- Nitrogen oxides
- Azide reacts with many heavy metals such as lead, copper, mercury, silver and gold to form explosive compounds. Copper and lead azides are more sensitive than nitroglycerin. Azide reacts with metal halides to give a range of metal azide halides, many of which are explosive. Incompatible with chromyl chloride, hydrazine, bromine, carbon disulfide, dimethyl sulfate, dibromomalonitrile.

Hazardous Combustion or Decomposition Products

Toxic fumes of Nitrogen oxides

Hazardous Polymerization

Will not occur

THIMEROSAL

Stability

Stable

Conditions to Avoid

- Avoid contact with metals and acids
- Explodes when heated
- May be shock sensitive

Incompatibilities

- Strong oxidizing agents
- Strong acids
- Strong bases
- Iodine
- Heavy metal salts

Hazardous Combustion or Decomposition Products

May degrade in sunlight, toxic fumes of carbon monoxide, carbon dioxide, sulfur oxides, mercury, mercury oxides.

Hazardous Polymerization

Will not occur

SECTION VI: HEALTH HAZARDS

RPR is intended for IN VITRO diagnostic use only

Sodium Azide

Carcinogen Status

None....Sodium azide is a strong skin and mucous membrane irritant and poison. Contact may produce skin burns. Poisoning from inhalation or ingestion may result in anesthetic symptoms such as headache, dizziness, faintness, somnolence, and unconsciousness. Serious poisonings may be fatal.

Thimerosal:

Carcinogen Status

None....To the best of our knowledge no health effects have been identified for the product mixture under normal conditions of use, although the health effects of the product have not been thoroughly investigated.

First Aid for Sodium Azide and Thimerosal

- In case of exposure, obtain medical attention immediately. If ingested, give large quantities of water and induce vomiting.
 - In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and call a physician. If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
 - In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
-

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Ventilation

Provide local exhaust ventilation system to meet permissible exposure limits.

Respiration

High Levels...Supplied-air respirator with a full face piece, helmet or hood. Self-contained breathing apparatus with a full facepiece.

Firefighting

Self-contained breathing apparatus with full face piece operated in a pressure demand or other positive-pressure mode.

Clothing

Protective clothing not required. Avoid repeated or prolonged contact with this substance.

Gloves

Employee must wear appropriate protective gloves to prevent contact with this substance.

Eye Protection

Employee must wear splash-proof or dust-resistant safety goggles and a face shield to prevent contact with this substance.

SECTION VIII: CONTROL MEASURES

Contain spill with absorbent material and place in appropriate container. Wash and disinfect spill site after clean-up.

SECTION IX: ADDITIONAL COMMENTS

Store 2°-8°C

Employers should use this information as a supplement to other information gathered by them and should make independent judgment of the suitability of this information to ensure proper use and to protect the health and safety of employees. This information is provided without warranty and any use of this product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process is the responsibility of the user. Biokit USA, Inc. shall not be held liable for any damage resulting from the handling or use of this product.

MANUAL-SAFETY	LOCATION/DEPARTMENT	ISSUE DATE
DATE REVIEWED _____	_____	
INITIALS _____	FORM NO. _____	SUPERDESES MSDS
		FORM NO. _____ DATED _____