



Material Safety Data Sheet

Strongly Reactive Control, 160 µL

Page 1 of 2

Section I – General Information

Identity	STRONGLY REACTIVE CONTROL, 160 µL (Component of Cambridge Biotech HIV -1 Western Blot) (Cat. No. 98002)
Item Code Number	Component 4
Chemical Name and Synonyms	Human serum (inactivated) with preservatives
Formula	NA
Chemical Family	Human serum
DOT Hazard Classification	NA
Proper DOT Shipping Name	NA
Manufacturer's Name	Calypte Biomedical Corporation
Manufacturer's Address	1265 Harbor Bay Parkway, Alameda, CA 94502 USA
Telephone Number for Information	Within the US (877) 225-9783 – Outside the US (510) 749-5100
Emergency Telephone Number	(800) 424-9300 (CHEMTREC)
Date Prepared	April, 2003

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
Screened, heat-treated, human serum	NA	NA	NA	NA
Thimerosal	NA	0.1 mg/m ³ (as Hg), 8-hr TWA skin	NA	0.005%
Sodium azide	Sodium azide 0.3 mg/m ³ (ceiling limit) skin	Sodium azide 0.3 mg/m ³ (ceiling limit) skin	NA	0.1%

Section III - Physical/Chemical Characteristics

Boiling Point	Not determined	Vapor Pressure (mm Hg.)	NA	Vapor Density (AIR = 1)	NA
Solubility in Water	NA	Specific Gravity (H₂O = 1)	Not determined	Melting Point	NA
Evaporation Rate (Butyl Acetate = 1)	NA	Percent volatile by volume (%)	NA	PH	Approx. 7.4
Appearance and Odor	Transparent, yellow -gold liquid.				
Other	CAUTION: Contains a high titer of antibodies to HIV antigen. Although the plasma used in this product has been tested and found to be negative for HbsAg and for antibodies to HCV and HTLV-I/II, handle all materials as if capable of transmitting infectious agents.				

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	NA	Auto Ignition Temperature	NA
Flammable Limits	NA	LEL	NA
Extinguishing Media	General precautions as appropriate for surrounding fire.	Special Fire Fighting Procedures	Wear respirator due to potential release of toxic vapors.
Unusual Fire and Explosion Hazards	May produce toxic fumes under fire.		

Section V - Reactivity Data

NOTE: No specific reactivity data is available for the "substance of concern". Information provided in this section is for two components of the substance, sodium azide and thimerosal.			
Stability	Stable	Conditions to Avoid	Keep away from strong oxidizers, acids and bases
Incompatibility (Materials to Avoid)	Keep away from strong oxidizers, acids and bases	Hazardous Polymerization	Will not occur under normal conditions
Hazardous Decomposition Products	Burning sodium azide may release toxic nitrogen oxides. Thimerosal decomposition products include carbon oxides, sulfur oxides, mercury and mercury oxides.		



Material Safety Data Sheet

Strongly Reactive Control, 160 µL

Section VI - Health Hazard Data

NOTE: No information is available on the specific health hazards of "substance of interest". Information is available on two components of the substance, sodium azide and thimerosal. Inhalation of sodium azide vapor may cause eye irritation, bronchitis, headache, decrease in blood pressure, and weakness and collapse. Inhalation of high doses of sodium azide can cause pulmonary edema. These health effects are due in part to hydrazoic acid, a compound readily formed from sodium azide, particularly in acidic conditions. Ingestion or injection of sodium azide has been shown to have a hypotensive effect in hypersensitive persons. Exposure to high concentrations of sodium azide may affect the neurological, cardiovascular, blood, and pulmonary systems.

Primary Routes of Entry:	Inhalation, ingestion, contact and/or injection	Carcinogen-NTP Program	NA
OSHA Permissible Exposure Limit	Sodium azide: 0.3 mg/m ³ (ceiling limit) skin	ACGIH Threshold Limit Value	Thimerosal: 0.1 mg/m ³ (as Hg), 8-hr TWA skin Sodium azide: 0.3 mg/m ³ (ceiling limit) skin
Carcinogen-IARC Program	NA	Symptoms of Exposure	Sodium azide: Symptoms of exposure include eye and respiratory irritation. Inhalation of high concentration may also cause headache and decreased blood pressure in some persons. Thimerosal: Many mercury compounds have been shown to cause central nervous system, kidney, and reproductive toxicity. Mercury compounds are known to the State of California to cause reproductive effects. Causes skin burns. May cause allergic skin reaction.
Medical Conditions Aggravated by Exposure	Sodium azide: Acid vapor, such as hydrazoic acid, can be irritating to the respiratory tract and may aggravate preexisting respiratory disorders.	Emergency First Aid	If splashed or skin or eyes contacted, flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if symptoms are present after washing. If swallowed, induce vomiting immediately and seek medical attention. If inhaled, remove to fresh air. Treat symptomatically. If symptoms are present, get medical attention.

Section VII - Precautions for Safe Handling and Use

Spill Response	Contain spill with absorbent material. Use standard lab cleanup. Wipe spills promptly with 1% sodium hypochlorite solution (1:5 dilution of liquid household bleach). Do not put solutions containing bleach in autoclaves.	Waste Disposal Method	Dispose in accordance with existing procedures employed for infectious waste at your facility. Thimerosal contains mercury. This product contains sodium azide as a preservative. Sodium azide has been reported to form lead or copper azide in plumbing. These azides are explosive. Flush drains thoroughly after disposing of solutions containing sodium azide to prevent azide build-up. Dispose according to local, state and federal regulations.
Handling and Storage Precautions	Handle as if capable of transmitting an infectious agent. Wear gloves, lab coat, and eye protection. Avoid getting material on you. Avoid splashing. Wash hands thoroughly after handling product. Do not eat or drink while handling this material. Store at 2°-8°C.		

Section VIII - Control Measures

Respiratory Protection	None required	Eye Protection	Chemical splash goggles
Skin Protection	Wear latex gloves	Ventilation Recommended	No special requirements
Other Protection	Wear lab coat	Other Precautions	Decontaminate affected equipment with 1% sodium hypochlorite solution. Clean rinse with water.

DISCLAIMER: The information was prepared and presented with reasonable care and is based on the most reliable information available to the authors. Calypse Biomedical makes no warranty, express or implied, of the merchantability, fitness, accuracy, or completeness of this information.