



Material Safety Data Sheet

Substrate A, 30 mL

Page 1 of 2

Section I – General Information

Identity	SUBSTRATE A, 30 mL (Component of Cambridge Biotech HIV -1 Western Blot (Cat. No. 98002) and Cambridge Biotech HIV -1 Urine Western Blot (Cat. No. 98078))
Item Code Number	Component 9
Chemical Name and Synonyms	Alcohol mixture
Formula	NA
Chemical Family	Alcohol mixture
DOT Hazard Classification	IATA UN# 1170 Class 3
Proper DOT Shipping Name	Ethanol Solution
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	July, 2003

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
4-chloro-1-naphthol (4CN)	NA	NA	NA	7.8 mM

Section III - Physical/Chemical Characteristics

Boiling Point	Not determined	Vapor Pressure (mm Hg.)	NA	Vapor Density (AIR = 1)	NA
Solubility in Water	Soluble	Specific Gravity (H₂O = 1)	Not determined	Melting Point	NA
Evaporation Rate (Butyl Acetate = 1)	NA	Percent volatile by volume (%)	7.8 mM of 4CN in an alcohol solution	pH	5.8
Appearance and Odor	Clear liquid				

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	42.8°C	Auto Ignition Temperature	NA		
Flammable Limits	NA	LEL	NA	UEL	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	Upon evaporation of water, this product may emit toxic fumes and could be extremely flammable under fire conditions. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.				

Section V - Reactivity Data

Stability	Stable	Conditions to Avoid	None known		
Incompatibility (Materials to Avoid)	Other strong oxidizing and reducing agents, strong bases	Hazardous Polymerization	None known		
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide				



Material Safety Data Sheet

Substrate A, 30 mL

Page 2 of 2

Section VI - Health Hazard Data

Primary Routes of Entry:	Inhalation, ingestion, skin and eye contact	Carcinogen-NTP Program	NA
OSHA Permissible Exposure Limit	NA	ACGIH Threshold Limit Value	NA
Carcinogen-IARC Program	NA	Symptoms of Exposure	None known
Medical Conditions Aggravated by Exposure	Eye and skin irritant. Toxicogenic if inhaled or ingested.	Emergency First Aid	For inhalation, remove subject to fresh air. Consult physician. For ingestion, consult physician immediately. For skin contact, remove any contaminated clothing. Wash with germicidal soap and water for at least 15 minutes. For eye contact, flush immediately with plenty of water for at least 15 minutes.

Section VII - Precautions for Safe Handling and Use

Spill Response	Contain spill with absorbent material and clean up with copious amounts of water. Avoid contact with skin and clothing.	Waste Disposal Method	Dispose according to local, state and federal regulations
Handling and Storage Precautions	Wear gloves and lab coat. Store at 2°-8°C.		

Section VIII - Control Measures

Respiratory Protection	None required if good ventilation is maintained. Otherwise wear MSHA/NIOSH approved respirator suitable for vapor or mist concentrations encountered.	Eye Protection	Chemical splash goggles
Skin Protection	Wear gloves. Do not permit reagent to contact the skin.	Ventilation Recommended	Good ventilation
Other Protection	Wear lab coat	Other Precautions	Decontaminate affected equipment with detergent 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. Calypate Biomedical makes no warranty, express or implied, of the merchantability, fitness, accuracy, or completeness of this information.