

MATERIAL SAFETY DATA SHEET

Product Name: **Aware™ BED™ EIA HIV-1 Incidence Test**
Product Number: **98003**
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The Aware™ BED™ EIA HIV-1 Incidence Test is comprised of two subunits:

Catalog No. 98003 A: Refrigerator Pack
Catalog No. 98003 B: Freezer Pack

The hazardous materials present in the kit components of each subunit will be addressed separately.

A summary of all hazardous materials is presented on page 6.

Catalog No. 98003 A: Refrigerator Pack

Subcomponents:

PN 20597	Product Insert	1 Insert
PN 11035	Plate Sealers	1 Pack
PN 80441	TMB	27 mL
PN 80438	10x Wash Buffer	175 mL
PN 80440	Stop Component	27 mL
PN 80442	Coated Plates	2 Plates
PN 80530	Sample Diluent	175 mL

Hazardous substances:

I. Non-carcinogenic analog of Benzedine (contains 3,3',5,5'-Tetramethylbenzidine, a non-carcinogenic analog of Benzedine)

CAS #: N/A

Manufacturer #: TTMB

Found in: 80441

Hazardous Overview:

TTMB is a non-carcinogenic analog of Benzedine and has mild oxidizing agent properties. Avoid contact with skin, eyes, inhalation, and ingestion.

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammable Limits: N/A

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Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Special Procedure: None Special

Unusual Fire Fighting Procedures: None Special

Reactivity Data:

Stability: This product is stable

Conditions to avoid: Protect from direct UV light, avoid elevated temperatures

Incompatibility: Strong oxidizing agents, metals

Hazardous Polymerization: Will not occur

Hazardous Decomposition: None Known

Health Hazard Data:

Routes of Entry: Avoid contact with skin; avoid ingestion.

Health Hazards: Toxicological properties have not been thoroughly investigated.

Signs and Symptoms of Exposure: Not known at this time.

Emergency and First Aid Procedures:

Ingestion: Induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Wash exposed area with soap and copious amounts of water. Remove contaminated clothing and shoes and wash before reuse.

Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort persists, call a physician to obtain medical attention.

Precautions of Safe Handling and Use:

Released or Spilled Material: Cover with absorbent material provided in spill kit.

Waste Disposal Method: Normal disposal with copious amounts of water; observe all federal, state, and local environmental regulations.

II. **1N H₂SO₄ (1N Sulfuric Acid)**

CAS #: 7664-93-9

Found in: 80440

Concentration as used in component: 1 Normal

Hazardous Overview:

In its concentrated form, Sulfuric Acid is corrosive, reactive, and causes burns. The material provided in the HIV-1 BED Incidence EIA is significantly diluted and thus hazards are reduced. The information presented below is for the concentrated form.

HMS Rating:

Health: 3

Flammability: 0

Reactivity: 2

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NFPA Rating:

Health: 3

Flammability: 0

Reactivity: 2

Emergency and First Aid Procedures:

Ingestion: Do not induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Flush exposed area with copious amounts of water. Remove contaminated clothing and shoes and wash before reuse. Call a physician if burning occurs.

Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort persists, call a physician to obtain medical attention.

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammable Limits: N/A

Extinguishing Media: Suitable: Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Unsuitable: Do not use water.

Unusual Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Can emit toxic fumes under fire conditions.

Precautions of Safe Handling and Use:

Released or Spilled Material: Cover with dry lime or soda ash. Ventilate area and wash spill site after material pickup is complete.

III. Albumin, Bovine Fraction V

CAS #: 9048-46-8

Manufacturer #: A-3059

Found in: PN 80439 (also in small amounts in 80443 and 80444 of Freezer Pack)

Hazardous Overview:

Bovine Serum Albumin can be a mild irritant. Avoid inhalation, contact with eyes, skin and clothing.

Emergency and First Aid Procedures:

Ingestion: Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Wash exposed area with soap and copious amounts of water.

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Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: Remove to fresh air. If breathing is difficult, call a physician.

HMS Rating:

Health: 0 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 0 Flammability: 0 Reactivity: 0

Fire and Explosion Hazard Data:

Flash Point: N/A

Flammability: N/A

Extinguishing Media: Suitable: Water Spray. Carbon dioxide, dry chemical power, or appropriate foam.

Unusual Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Can emit toxic fumes under fire conditions.

Precautions of Safe Handling and Use:

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

IV. 2-Methyl-4-Isothiazonlin-3-One (ProClin 950)

CAS #: 2682-20-4

Manufacturer #: 46884-U

Found in: 80443, 8044, 80445, 80446, 80447, 80448

Percent as used in components: 0.0095%

Emergency Overview:

In concentrated form of 9.5%, this compound is: corrosive, causes burns, and may cause sensitization by skin contact. At this very dilute formulation of 0.0095% in volumes of 100µL or less, hazards are greatly reduced. The information presented below is for the concentrated form.

HMS Rating:

Health: 3 Flammability: 0 Reactivity: 0

NFPA Rating:

Health: 3 Flammability: 0 Reactivity: 0

Emergency and First Aid Procedures:

Ingestion: Do not induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Flush with copious amounts of water. Remove contaminated clothing and shoes. Call physician if burning occurs.

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Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If discomfort persists, obtain medical attention.

Stability:

Stable. Avoid strong oxidizing and reducing agents, amines, mercaptans.

Catalog No. 98003 B: Freezer Pack

Subcomponents:

PN 80443	1000x Streptavidin HRP	50µL
PN 80444	1000x BED peptide	50µL
PN 80445	Low Positive Control	100µL
PN 80446	Calibrator	100µL
PN 80447	Negative Control	100µL
PN 80448	High Positive Control	100µL

Hazardous substances:

V. Human Serum

Manufacturer #: 30732, 60422, 60492, 60493, 60494, 60495
Found in: 80445, 80446, 80447, 80448

Emergency Overview:

All human serum used in the product has been determined to be free of the presence of hepatitis B and C, and has been heat inactivated to render any HIV virus not viable. This is confirmed by infectivity testing. However, universal precautions should always be followed when working with any body fluid. Avoid contact with skin, mouth, and eyes. Wear gloves, safety glasses, and appropriate PPE.

Emergency and First Aid Procedures:

Ingestion: Induce vomiting. Wash mouth out with water provided person is conscious. Call a physician.

Dermal Exposure: Wash exposed area with soap and copious amounts of water. Remove contaminated clothing and shoes.

Contact with Eyes: Flush with copious amounts of water or eyewash saline for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: No fume inhalation hazard.

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Summary of Hazardous Materials

Catalog No. 98003 A	Refrigerator Pack	Hazardous Material
PN 20597	Product Insert	None
PN 11035	Plate Sealers	None
PN 80441	TMB	I
PN 80438	10x Wash Buffer	None
PN 80440	Stop Component	II
PN 80530	Sample Diluent	III, IV
PN 80442	IgG Coated Plates	None
Catalog No. 98003 B	Freezer Pack	
PN 80443	1000x Streptavidin HRP	III, IV
PN-80444	1000x BED Peptide	III, IV
PN 80445	Low Positive Control	IV, V
PN 80446	Calibrator	IV, V
PN 80447	Negative Control	IV, V
PN 80448	High Positive Control	IV, V

General Notes:

- Any material/component not described in this document is not considered to be hazardous as it is currently formulated for the Incidence EIA. This is based on evaluations made by Calypte Biomedical or the Manufacturer/Supplier of the subcomponent under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- It is advised that appropriate Personal Protection Equipment be employed at all times during the use of the Aware™ BED™ EIA HIV-1 Incidence Test. This includes the use safely glasses or goggles, biohazard shield or hoods, lab coats or gowns, and gloves. It is also advised that GLP/GMP and proper training be followed to further minimize the risk of accident and exposure.
- Disclaimer: The information described in this document was prepared and presented with reasonable care and is based on the most reliable information available to the authors. Calypte Biomedical makes no warranty, expressed or implied, of the merchantability, fitness, accuracy, or completeness of this information.