MATERIAL SAFETY DATA SHEET

Product Name: Sedia™ HIV-1 LAg-Avidity EIA for Dried Blood Spots
Catalog Number: 1003
Company: Sedia Biosciences Corp.
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The Sedia™ HIV-1 LAg-Avidity EIA for Dried Blood Spots is comprised of two subunits:

Part No. 3048: Refrigerator Pack
Part No. 3039: 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 starting on page 5.

Part No. 3048: Refrigerator Pack

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3049</td>
<td>HIV-1 rIDR-M Coated Microwell Plates (DBS)</td>
<td>2 Plates</td>
</tr>
<tr>
<td>3001</td>
<td>10x Wash Buffer Conc.</td>
<td>2 x 100 mL</td>
</tr>
<tr>
<td>3027</td>
<td>Sample Diluent - DBS</td>
<td>175 mL</td>
</tr>
<tr>
<td>3032</td>
<td>Dissociation Buffer</td>
<td>55 mL</td>
</tr>
<tr>
<td>3003</td>
<td>TMB Substrate</td>
<td>27 mL</td>
</tr>
<tr>
<td>3004</td>
<td>Stop Solution</td>
<td>27 mL</td>
</tr>
<tr>
<td>6066</td>
<td>Product Insert</td>
<td>1 Insert</td>
</tr>
<tr>
<td>8015</td>
<td>Plate Sealers</td>
<td>1 Pack</td>
</tr>
</tbody>
</table>

Part No. 3039: Freezer Pack

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3067</td>
<td>Dried Blood Spot Control Cards</td>
<td>1 pouch containing:</td>
</tr>
<tr>
<td>4013</td>
<td>Negative Control Card</td>
<td>1 card with 5 spots</td>
</tr>
<tr>
<td>4014</td>
<td>Calibrator Card</td>
<td>1 card with 5 spots</td>
</tr>
<tr>
<td>4015</td>
<td>Low Positive Control Card</td>
<td>1 card with 5 spots</td>
</tr>
<tr>
<td>4015</td>
<td>High Positive Control Card</td>
<td>1 card with 5 spots</td>
</tr>
<tr>
<td>3038</td>
<td>Goat Anti-Human IgG HRP (1000x)</td>
<td>50µL</td>
</tr>
</tbody>
</table>

Hazardous substances:

I. Albumin, Bovine, Fraction V
CAS #: 9048-46-8
Found in: PN 3038

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

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.

HMIS 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 powder, 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.

II. 2-Methyl-4-Isothiazolin-3-One

CAS #: 2682-20-4
Found in: PN 3027 at 0.0095%
Found in: PN 4013, PN 4014, PN 4015, PN 4016 dried at <0.1 mg per card

Emergency Overview:
In concentrated form of 9.5%, this compound is: corrosive, causes burns, and may cause sensitization by skin contact. At the low volumes, concentrations and forms used, hazards are greatly reduced. The information presented below is for the concentrated form.

HMIS 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.

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.
III. 3,3',5,5'-Tetramethylbenzidine (a non-carcinogenic analog of Benzidine)
CAS #: 54827-17-7
Found in: PN 3003

Hazardous Overview:
Tetramethylbenzidine is a non-carcinogenic analog of Benzidine 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
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.

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.

IV. 1N H2SO4 (1N Sulfuric Acid)
CAS #: 7664-93-9
Found in: PN 3004
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 Sedia™ HIV-1 LAg-Avidity EIA is significantly diluted and thus hazards are reduced. The information presented below is for the concentrated form.
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HMIS Rating:
Health: 3  Flammability: 0  Reactivity: 2

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.

V. Human Blood, Dried
CAS#: N/A
Found in: PN 4013, PN 4014, PN 4015, PN 4016 in dried form

Emergency Overview:
Dried blood specimens are prepared by mixing HIV-negative blood cells with HIV-negative or HIV-positive serum. All human serum and blood cells used in the product have been determined to be free of the presence of hepatitis B and C. Blood cells have additionally been determined to be free of the presence of HIV. HIV-positive serum has been heat inactivated to render any HIV virus not viable. In dried form, blood has very low risk of contamination or infectivity. 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.
VI. Citrate Buffer Solution, pH 3.0

CAS #: N/A
Found in: PN 3032
Concentration as used in component: 0.1 Molar

Hazardous Overview:
Citrate Buffer is a mild corrosive.

HMIS Rating:
Health: 3 Flammability: 0 Reactivity: 0

NFPA Rating:
Health: 3 Flammability: 0 Reactivity: 0

Emergency and First Aid Procedures:
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water. Wash contaminated clothing before reuse.

Contact with Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Fire and Explosion Hazard Data:
Flash Point: N/A
Extinguishing Media: Suitable: Noncombustible. Use extinguishing media appropriate to surrounding 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.

Summary of Hazardous Materials

<table>
<thead>
<tr>
<th>Part No. 3048</th>
<th>Refrigerator Pack</th>
<th>Hazardous Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>PN 3049</td>
<td>HIV-1 rIDR-M Coated Microwell Plates (DBS)</td>
<td>None</td>
</tr>
<tr>
<td>PN 3001</td>
<td>10x Wash Buffer Conc.</td>
<td>None</td>
</tr>
<tr>
<td>PN 3027</td>
<td>Sample Diluent - DBS</td>
<td>II</td>
</tr>
<tr>
<td>PN 3032</td>
<td>Dissociation Buffer</td>
<td>VI</td>
</tr>
<tr>
<td>PN 3003</td>
<td>TMB Substrate</td>
<td>III</td>
</tr>
<tr>
<td>PN 3004</td>
<td>Stop Solution</td>
<td>IV</td>
</tr>
<tr>
<td>PN 6066</td>
<td>Product Insert</td>
<td>None</td>
</tr>
<tr>
<td>PN 8015</td>
<td>Plate Sealers</td>
<td>None</td>
</tr>
</tbody>
</table>
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<tr>
<th>Part No. 3039</th>
<th>Freezer Pack</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PN 4013</td>
<td>Negative Control Card</td>
<td>II, V</td>
</tr>
<tr>
<td>PN 4014</td>
<td>Calibrator Card</td>
<td>II, V</td>
</tr>
<tr>
<td>PN 4015</td>
<td>Low Positive Control Card</td>
<td>II, V</td>
</tr>
<tr>
<td>PN 4016</td>
<td>High Positive Control Card</td>
<td>II, V</td>
</tr>
<tr>
<td>PN 3038</td>
<td>Goat Anti-Human IgG HRP (1000x)</td>
<td>I, II</td>
</tr>
</tbody>
</table>

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 Sedia Biosciences Corporation 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 Sedia™ HIV-1 LAg-Avidity EIA. This includes the use of safety 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. Sedia Biosciences makes no warranty, expressed or implied, of the merchantability, fitness, accuracy, or completeness of this information.

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