

## **Material Safety Statement**

For Matched Pair Antibodies for ELISA of TAT complex

**Product Name:** Matched Pair Antibodies for ELISA of TAT Complex

**Catalogue Number:** TAT-EIA

**Use of Product:** These products are for research use only.

The hazards identified with this product are those associated with the following components:

- Conjugent Diluent
- Detecting Antibody

Refer to attached Safety Data Sheets for Detecting Antibody and Conjugent Diluent for more detailed safety information.

Though not all components are defined as hazardous, following standard laboratory practices when handling all kit components is advisable.

The above statements are provided for informational use only and are believed to be correct. Affinity Biologicals Inc. shall not in any event be liable for incidental, consequential, third party or special damages of any kind resulting from any handling, use or failure of the products or above information.

Material Safety Statement prepared by the Operations department June 29, 2017

## Safety Data Sheet For Conjugate Diluent

### IDENTIFICATION

**Supplier:** Affinity Biologicals Inc.  
1395 Sandhill Drive  
Ancaster, ON L9G 4V5 Canada  
Telephone: 905-304-9896, 1-800-903-6020 (in Canada and the United States)  
Fax: 905-304-9897  
**Emergency Telephone: 905-304-9896 (EST 8:30 a.m. – 5:00 p.m.).**  
**After hours, contact your local poison control center**

**Product Name:** Thrombin-Antithrombin Complex EIA, Conjugate Diluent  
**Catalogue Number:** TAT-EIA-CD  
**Product use:** For research use only

### HAZARD IDENTIFICATION

Non-hazardous liquid. This product is non-flammable. May cause eye irritation (mild to severe) in some individuals. Potential environmental effects are not available.

### COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredient:** Conjugate diluent (Proprietary formulation),

**Hazards Identification:** The hazards identified with this product are those associated with the conjugate diluent. Though complete toxicity information is not available, none of its components are known to be toxic or hazardous at use concentrations. The conjugate diluent is an aqueous, protein-containing mixture which contains the mercury-free preservatives methylisothiazolone (0.01%) and bromonitrodioxane (0.01%) and 10ppm Proclin 300, which can produce adverse health effects in their concentrated forms. For more specific toxicity information on these components, refer to SDSs available from Sigma-Aldrich.

**CAS registry number:** Not applicable  
**LD<sub>50</sub> (species and route):** Not available  
**LC<sub>50</sub> (species and route):** Not available

### FIRST AID MEASURES

**Eye Contact:** Flush thoroughly with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (~15 minutes). Seek medical advice if irritation develops.

**Skin Contact:** Remove contaminated clothing and wash with water and soap. No adverse acute effects are expected via this route of entry.

**Inhalation:** No special first aid measures necessary; inhalation or aspiration unlikely

**Ingestion:** No data on ingestion of the material is available. Extremely large oral doses may cause gastrointestinal disturbance. If swallowed, contact medical staff or poison control to determine if any immediate response or follow-up actions are recommended.

### FIRE FIGHTING MEASURES

**Conditions of flammability:** Non-flammable  
**Means of extinction - suitable:** Use extinguishing media appropriate for surrounding fire conditions  
**Means of extinction - not suitable:** Not available  
**Protective Equipment:** When extinguishing fires use breathing apparatus with an independent source of air  
**Upper flammable limit:** Not available  
**Lower flammable limit:** Not available  
**Flash Point and method of determination:** Not available  
**Auto-ignition temperature:** Not available  
**Hazardous combustion products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides  
**Explosion data-sensitivity to mechanical impact:** Not available  
**Explosion data-sensitivity to static charge:** Not available  
**Special risks in a fire situation:** None

**ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Wear suitable laboratory protective clothing

**Waste disposal:** Do not contaminate soil, groundwater, or surface water. Observe all federal, state and local laws when considering waste disposal method.

**Procedure to be followed in case of leak or spill:** Wear protective equipment. Absorb spill with inert material and then place in a disposal container. Wash area thoroughly with soap and water.

**HANDLING AND STORAGE**

**Handling procedures and equipment:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Safety shower and eyewash station near location of use.

**Storage requirements:** Store at 2-8°C

**EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Specific engineering controls to be used:** Not applicable (not respirable as a liquid)

**Personal protective equipment to be used:**

**Eye:** Wear safety goggles when risk of splashes;

**Skin:** wear lab coat and gloves of plastic or rubber when risk of contact

**Respiratory:** none

**PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** Liquid

**Odour & appearance:** Odourless, clear, amber-coloured liquid

**Odour threshold:** Not available

**Specific gravity:** Not available

**Vapour Pressure:** Not available

**Vapour density:** Not available

**Evaporation rate:** not available

**Boiling point:** 100°C

**Freezing point:** Not available

**pH:** 6.2-6.7

**Coefficient of water/oil distribution:** Not available

**Density (g/ml) at 20°C:** Not available

**Solubility in Water:** Complete

**STABILITY AND REACTIVITY**

**Conditions under which the product is chemically unstable:** Product is stable at normal temperatures and storage conditions.

**Incompatibilities:** None known

**Conditions of reactivity:** None known

**Hazardous decomposition products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:** Will not occur

**TOXICOLOGICAL INFORMATION**

**Route of entry:** May be absorbed through ingestion

**Effects of acute exposure to product:**

**Eye:** May give irritation

**Skin:** Not available

**Inhalation:** Inhalation is not possible when used as recommended

**Ingestion:** Not available

**Effects of chronic exposure to product:** Not available

**Exposure limits:** Not available

**Irritancy of product:** see above

**Sensitization to product:** Not available

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Teratogenicity:** Not available

**Mutagenicity:** Not available

**Name of toxicologically synergistic products:** Not available

**ECOLOGICAL INFORMATION**

No data available.

**DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Do not contaminate soil, groundwater, or surface water. Disposal should be according to local, state or national legislation.

**TRANSPORT INFORMATION**

**Special shipping information:** None required (non-regulated and non-hazardous for transport)

**REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

**OTHER INFORMATION**

The above statements are provided for informational use only and are believed to be correct. Affinity Biologicals Inc. shall not in any event be liable for incidental, consequential, third party or special damages of any kind resulting from any handling, use or failure of the products or above information.

Prepared at Affinity Biologicals by the Operations department using MSDS data from supplier of raw material. Address any questions to Affinity Biologicals at (800) 903-6020.

Date of preparation of the SDS: June 29, 2017

QAF0112 rev 4

## Safety Data Sheet for Detecting Antibody

## IDENTIFICATION

**Supplier:** Affinity Biologicals Inc.

1348 Sandhill Drive

Ancaster, ON L9G 4V5 Canada

Telephone: 905-304-9896, 1-800-903-6020 (in Canada and the United States)

Fax: 905-304-9897

**Emergency Telephone:** 905-304-9896 (EST 8:30 a.m. – 5:00 p.m.).

After hours, contact your local poison control center

**Product Name:** Detecting Antibody

**Catalogue Number:** TAT-EIA-D

**Product use:** For *In vitro* research use only

## HAZARD IDENTIFICATION

Non-hazardous liquid. This product is non-flammable. May cause eye irritation (mild to severe) in some individuals. Potential environmental effects are not available.

## COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous Ingredient:** Proprietary formulation

**Hazards Identification:** Though complete toxicity information is not available, none of its components are known to be toxic or hazardous at use concentrations. Product is an aqueous, protein-containing mixture which contains the mercury-free preservatives methylisothiazolone (0.01%) and bromonitrodioxane (0.01%) and 10ppm Proclin 300, which can produce adverse health effects in their concentrated forms. For more specific toxicity information on these components, refer to SDSs available from Sigma-Aldrich.

**CAS registry number:** Not applicable

**LD<sub>50</sub> (species and route):** Not available

**LC<sub>50</sub> (species and route):** Not available

## FIRST AID MEASURES

**Eye Contact:** Flush thoroughly with water or normal saline, lifting the upper and lower lids occasionally, until no evidence of chemical remains (~15 minutes). Seek medical advice if irritation develops.

**Skin Contact:** Remove contaminated clothing and wash with water and soap. No adverse acute effects are expected via this route of entry.

**Inhalation:** No special first aid measures necessary; inhalation or aspiration unlikely

**Ingestion:** No data on ingestion of the material is available. Extremely large oral doses may cause gastrointestinal disturbance. If swallowed, contact medical staff or poison control to determine if any immediate response or follow-up actions are recommended.

## FIRE FIGHTING MEASURES

**Conditions of flammability:** Non-flammable

**Means of extinction - suitable:** Use extinguishing media appropriate for surrounding fire conditions

**Means of extinction - not suitable:** Not available

**Protective Equipment:** When extinguishing fires use breathing apparatus with an independent source of air

**Upper flammable limit:** Not available

**Lower flammable limit:** Not available

**Flash Point and method of determination:** Not available

**Auto-ignition temperature:** Not available

**Hazardous combustion products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides

**Explosion data-sensitivity to mechanical impact:** Not available

**Explosion data-sensitivity to static charge:** Not available

**Special risks in a fire situation:** None

**ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Wear suitable laboratory protective clothing

**Waste disposal:** Do not contaminate soil, groundwater, or surface water. Observe all federal, state and local laws when considering waste disposal method.

**Procedure to be followed in case of leak or spill:** Wear protective equipment. Absorb spill with inert material and then place in a disposal container. Wash area thoroughly with soap and water.

**HANDLING AND STORAGE**

**Handling procedures and equipment:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Safety shower and eyewash station near location of use.

**Storage requirements:** Store at 2-8°C.

**EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Specific engineering controls to be used:** Not applicable (not respirable as a liquid)

**Personal protective equipment to be used:**

**Eye:** Wear safety goggles when risk of splashes;

**Skin:** wear lab coat and gloves of plastic or rubber when risk of contact

**Respiratory:** none

**PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** Liquid

**Odour & appearance:** Odourless, clear, amber-coloured liquid

**Odour threshold:** Not available

**Specific gravity:** Not available

**Vapour Pressure:** Not available

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**Boiling point:** 100°C

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**Density (g/ml) at 20°C:** Not available

**Solubility in Water:** Complete

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**Conditions under which the product is chemically unstable:** Product is stable at normal temperatures and storage conditions.

**Incompatibilities:** None known

**Conditions of reactivity:** None known

**Hazardous decomposition products:** Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:** Will not occur

**TOXICOLOGICAL INFORMATION**

**Route of entry:** May be absorbed through ingestion

**Effects of acute exposure to product:**

**Eye:** May give irritation

**Skin:** Not available

**Inhalation:** Inhalation is not possible when used as recommended

**Ingestion:** Not available

**Effects of chronic exposure to product:** Not available

**Exposure limits:** Not available

**Irritancy of product:** see above

**Sensitization to product:** Not available

**Carcinogenicity:** Not available

**Reproductive toxicity:** Not available

**Teratogenicity:** Not available

**Mutagenicity:** Not available

**Name of toxicologically synergistic products:** Not available

**ECOLOGICAL INFORMATION**

No data available.

**DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Disposal should be according to local, state or national legislation.

**TRANSPORT INFORMATION**

**Special shipping information:** None required (non-regulated and non-hazardous for transport)

**REGULATORY INFORMATION**

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Date of preparation of the SDS: June 29, 2017

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