

Material Safety Statement

For Human Factor VIII:C EIA and Canine Factor VIII EIA

Product Name: Matched Pair Antibodies for ELISA of human Factor VIII:C and
Matched Pair Antibodies for ELISA of canine Factor VIII

Catalogue Number: F8C-EIA and CFVIII-EIA

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

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

- Sample Diluent
- Detecting Antibody

Refer to attached Safety Data Sheets for Detecting Antibody and Sample 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 9, 2016.

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Safety Data Sheet for Sample Diluent

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

Product Name: Sample Diluent

Catalogue Number: F8C-EIA-SD, CFVIII-EIA-SD

Product use: For *In vitro* research use only

HAZARDS IDENTIFICATION

Preparations containing Sodium Azide may be harmful if swallowed, by inhalation and in contact with skin. Preparations containing PMSF may be harmful if swallowed, by inhalation and in contact with skin. Protective equipment should be worn when using this product

COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient: Sodium Azide (<0.015%)
Phenylmethylsulfonyl fluoride (<0.0002%)

Hazards Identification: Though complete toxicity information is not available, none of its components are known to be toxic or hazardous at use concentrations.

CAS registry number for Sodium Azide: 26628-22-8

CAS registry number for PMSF: 329-98-6

LD₅₀ (species and route): Not available

LC₅₀ (species and route): Not available

FIRST AID MEASURES

Eye Contact: Flush thoroughly with water or normal saline for at least 15 minutes. Seek medical advice if irritation develops.

Skin Contact: Remove contaminated clothing and wash with water and soap.

Inhalation: Remove to fresh air. If breathing becomes difficult give oxygen and consult a physician.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting. Call a physician.

FIREFIGHTING MEASURES

Conditions of flammability: Not determined

Means of extinction - suitable: Foam, CO₂, Dry Chemical, and Water/Fog

Means of extinction - not suitable: Not available

Protective Equipment: Not available

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: May emit toxic fumes

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: Dispose with copious amounts of water, observing all federal, provincial/state, and local environmental regulations.

Procedure to be followed in case of leak or spill: Wear protective clothing to prevent contact with eyes and skin. Pick up adsorbent material, keep in a closed waste container and hold for waste disposal. Sodium Azide may react with lead or copper plumbing to form highly explosive metal azides. On disposal of preparations containing Sodium Azide, flush with a large volume of water to prevent Azide build up.

HANDLING AND STORAGE

Handling procedures and equipment: Handle in accordance with good hygiene practices.

Storage requirements: Store at 2-8°C.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Specific engineering controls to be used: Not specified

Personal protective equipment to be used:

Eye: Wear safety goggles

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

Respiratory: Use sufficient ventilation

PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Odour & appearance: Clear, green liquid

Odour threshold: Not available

Specific gravity: Not available

Vapour Pressure: Not available

Vapour density: Not available

Evaporation rate: Not available

Boiling point: Not available

Freezing point: Not available

pH: Not available

Coefficient of water/oil distribution: Not available

Density (g/ml) at 20°C: Not available

Solubility in Water: Highly soluble

STABILITY AND REACTIVITY

Conditions under which the product is chemically unstable: Product is stable.

Incompatibilities: Avoid contact with oxidizing agents and metals

Conditions of reactivity: None known

Hazardous decomposition products: Oxides of nitrogen

Hazardous Polymerization: Will not occur

TOXICOLOGICAL INFORMATION

Route of entry: Avoid contact with skin, eyes or ingestion

Effects of acute exposure to product:

Eye: May give irritation

Skin: May give irritation

Inhalation: Not available

Ingestion: Mild poison

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.

REGULATORY INFORMATION

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

OTHER INFORMATION

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

Date of preparation of the SDS: June 9, 2016

Safety Data Sheet for Detecting Antibody

PRODUCT AND COMPANY INFORMATION

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

Product Name: Detecting Antibody

Catalogue Number: F8C-EIA-D, CFVIII-EIA-D

Product use: For *In vitro* research use only

HAZARDS 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

LD₅₀ (species and route): Not available

LC₅₀ (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.

FIREFIGHTING 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 PROPERTIES

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

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

OTHER INFORMATION

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