1801 Commerce Drive, South Bend, IN 46628
Phone (574) 288-2268 Fax (574) 288-2272

Material Safety Statement
Human Factor VIII:C EIA and Canine Factor VIII EIA

Last Revision On 7/2017

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

Catalogue Number: FVIII:C-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 Same 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. Enzyme Research Laboratories, 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.

Safety Data Sheet for Sample Diluent

Product and Company Information

Supplier: **Enzyme Research Laboratories, Inc.**
1801 Commerce Drive
South Bend, IN 46628
Phone: (574) 288-2268 or (800) 729-5270 (in U.S. and Canada)
Fax: (574) 288-2272

Product Name: Sample Diluent

Catalog Number: FVIII:C-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
LD_{50} (species and route): Not available
LC_{50} (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, CO_2, 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 practives.
Storage Requirements: Store at 2-8C.

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 20C: 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

Data is not 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

Enzyme Research Laboratories, Inc. believes the above information to be correct but does not purport to be all inclusive and should be used as a guide. Enzyme Research Laboratories, Inc. shall not be held liable for any damage resulting from the handling or contact with the above product.

Safety Data Sheet for Detecting Antibody

Product and Company Information

Supplier: **Enzyme Research Laboratories, Inc.**
1801 Commerce Drive
South Bend, IN 46628
Phone: (574) 288-2268 or (800) 729-5270 (in U.S. and Canada)
Fax: (574) 288-2272

Product Name: Detecting Antibody

Catalog Number: FVIII:C-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
LD_{50} (species and route): Not available
LC_{50} (species and route): Not available

First Aid Measures

Eye Contact: Flush thoroughly with water or normal saline, lifting the upper and lower lid 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 2-8C.

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: 100C
Freezing Point: Not available
pH: 6.2-6.7
Coefficient of water/oil distribution: Not available
Density (g/ml) at 20C: 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

Data is not 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

Enzyme Research Laboratories, Inc. believes the above information to be correct but does not purport to be all inclusive and should be used as a guide. Enzyme Research Laboratories, Inc. shall not be held liable for any damage resulting from the handling or contact with the above product.