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## Material Safety Data Sheet For Research Use Only Plasma Products

### PRODUCT AND COMPANY INFORMATION

**Supplier:** Affinity Biologicals Inc.  
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Ancaster, ON L9G 4V5 Canada  
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**Product Name:** Fibrinogen Deficient Plasma, Factor II Deficient Plasma, Factor V Deficient Plasma, Factor VII Deficient Plasma, Factor VIII Deficient Plasma, von Willebrand Factor Deficient Plasma, Factor IX Deficient Plasma, Factor X Deficient Plasma, Factor XI Deficient Plasma, Factor XII Deficient Plasma, Kininogen Deficient Plasma, Prekallikrein Deficient Plasma, Factor XIII Deficient Plasma, Protein C Deficient Plasma, Protein S Deficient Plasma, Antithrombin Deficient Plasma, Antithrombin & Heparin CoFactor II Deficient Plasma, Heparin CoFactor II Deficient Plasma, Protein C Inhibitor Deficient Plasma,  $\alpha_2$ -Antiplasmin Deficient Plasma, --- Apolipoprotein Deficient Plasma, Plasminogen Deficient Plasma, TAFI Deficient Plasma, Plasminogen Activator Inhibitor type I Deficient Plasma, Low Fibrinogen Control Plasma, High Fibrinogen Control Plasma, Factor II Inhibitor Plasma, Factor V Inhibitor Plasma, Factor VII Inhibitor Plasma, Factor VIII Inhibitor Plasma, Factor IX Inhibitor Plasma, Factor X Inhibitor Plasma, Factor XI Inhibitor Plasma, Factor XII Inhibitor Plasma, VisuCal™ Antigen Calibrator Plasma, VisuCon™ Normal Donor Set

**Catalogue Number: Frozen Plasmas:** FG-DP, FII-DP, FV-DP, FVII-DP, FVIII-DP, VWF-DP, FIX-DP, FX-DP, FXI-DP, FXII-D, KN-DP, PK-DP, FXIII-DP, PC-DP, PS-DP, ATIII-DP, ATHC-DP, HCII-DP, PCI-DP, A2AP-DP, ---, APOH-DP, PG-DP, TAFI-DP, PAI-DP, LFG-CP, FG-CP, INH2-DP, INH5-DP, INH7-DP, INH8-DP, INH9-DP, INH10-DP, INH11-DP, INH12-DP, NDSET

**Lyophilized Plasmas:** VWF-LDP, KN-LDP, PK-LDP, FXIII-LDP, PC-LDP, PS-LDP, ATIII-LDP, ATHC-LDP, HCII-LDP, PCI-LDP, A2AP-LDP, ---, APOH-LDP, PG-LDP, TAFI-LDP, PAI-LDP, INH2-LDP, INH5-LDP, INH7-LDP, INH8-LDP, INH9-LDP, INH10-LDP, INH11-LDP, INH12-LDP, EIACSA-1, EIACSA-5

**Product use:** For research use only

### HAZARDOUS INGREDIENTS

**Chemical Name:** Human Source Plasma

**Hazards identification:** Products derived from human plasma are potentially biohazardous material. Handle with caution as if capable of transmitting infectious agents.

**CAS registry number:** Not applicable

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

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

### HAZARDS IDENTIFICATION

**POSSIBLE BIOHAZARD.** Although this material was prepared with plasma collected from donors screened for CJD and which was tested at source and found negative for HBsAg, RPR (syphilis) and antibodies to HIV and HCV and non-reactive for HIV-1 rNA and HCV rNA by FDA approved tests, it should be handled by personnel trained in the proper procedures for handling potential viral contaminants. All wastes should be properly labeled and disposed of according to all international, national and local regulations.

### FIRST AID MEASURES

**Eye and Skin Contact:** In case of contact, immediately wash with soap and copious amounts of water. Consult a physician.

**Inhalation:** Not available

**Ingestion:** Drink a moderate amount of water and immediately notify medical personnel.

**FIRE OR EXPLOSION DATA**

**Conditions of flammability:** Not combustible

**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

**Auto-ignition temperature:** Not available

**Hazardous combustion products:** Not available

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

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

**ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Wear protective equipment.

**Procedure to be followed in case of leak or spill:** Wear protective equipment. Collect or absorb onto an inert material. Place in suitable container for prompt disposal. Label the container as to the potential hazard (viral). Spill areas can be decontaminated with 0.5% sodium hypochlorite, e.g. a 1:10 dilution of common household bleach, i.e., Chlorox, which is prepared fresh each month.

**HANDLING AND STORAGE**

**Handling procedures and equipment:** Wear gloves. Avoid breathing dust or aerosols. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed when not in use.

**Storage requirements:** **Frozen:** Store at -60 °C or lower. **Lyophilized:** 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 (or full face-shield) depending on risk of splashes;

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

**Respiratory:** None specified

**PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** **Frozen:** Should be in frozen state until use. Thaw to liquid prior to use.

**Lyophilized:** Solid. Should be reconstituted prior to use.

**Odour & appearance:** **Frozen:** Yellowish, translucent. **Lyophilized:** Pale yellow

**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

**REACTIVITY DATA**

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

**Incompatibilities:** None known

**Conditions of reactivity:** None known

**Hazardous decomposition products:** None known

**TOXICOLOGICAL PROPERTIES**

**Route of entry:** Include skin absorption, inhalation and ingestion

**Effects of acute exposure to product:** May cause irritation. Potential viral infection. Although this material was prepared with plasma collected from donors screened for CJD and which was tested at source and found negative for HBsAg, RPR (syphilis) and antibodies to HIV and HCV and non-reactive for HIV-1 rNA and HCV rNA by FDA approved tests, it should be handled by personnel trained in the proper procedures for handling potential viral contaminants.

**Effects of chronic exposure to product:** The chemical, physical and toxicological properties have not been thoroughly investigated

**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:** Autoclave at 121 degrees C or higher for 40 minutes or longer. Label the container with the hazard that was present. Dispose of by means that comply with all local, state and federal regulations.

**TRANSPORT INFORMATION**

**Special shipping information: Frozen:** Ship frozen on dry ice.

**Lyophilized:** Ship at ambient or 2-8°C.

**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.

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