



# Meridian

## Life Science,® Inc.

Innovative Solutions. Trusted Partner.®

5171 Wilfong Road  
Memphis, TN 38134  
USA

Telephone: 901.382.8716

Fax: 901.382.0027

Email: [info@meridianlifescience.com](mailto:info@meridianlifescience.com)

[www.MeridianLifeScience.com](http://www.MeridianLifeScience.com)

### Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH), Annex II

Trade Name: Human Plasminogen

Material. No.: A50182H

Specification: A50182H

Version: 1.0

Page: 1 of 5

Print Date: 31 OCT 2014

Revision Date: 31 OCT 2014

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING

Identification of the Substance or Preparation: Human Plasminogen sourced from Human Plasma, CAS # 9001-91-6.

REACH Registration No: Not Applicable

Use of the Substance/Preparation:

Identified Use(s): For In vitro laboratory use. For professional use only.

Company Undertaking Identification:

Meridian Life Science, Inc.  
5171 Wilfong Road  
Memphis, TN 38134 U.S.A.

E-Mail: [info@meridianlifescience.com](mailto:info@meridianlifescience.com)

EMERGENCY TELEPHONE: 901-382-8716

#### 2. HAZARDS IDENTIFICATION

Classification: Void

Information Pertaining to Special Dangers for Human and Environment:

This mixture does not require labeling, based on the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest version. This mixture is not classified as hazardous according to the EC Dangerous Preparations Directive (1999/45/EC) or EC 1272/2008 (CLP).

Classification System

The classification is in alignment with current EC (European Community) Directives. It is expanded with information from technical literature.

**Physical Hazards:** Not classified as a physical hazard.

**Health Hazard:** Not classified as a health hazard.

**Environmental Hazard:** Not classified as environmental hazard.

**Precautionary Statements:** The chemical, physical and toxicological properties of this mixture have not been thoroughly characterized. Avoid contact with eyes and skin. Do not inhale. This mixture contains material of animal origin and should be considered as potentially capable of transmitting infectious disease.

**Potential Health Effects:**

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Eyes: May cause eye irritation.

Skin: may cause skin irritation.

Ingestion: May be harmful if swallowed.

Chronic Effects: No data available.

Target Organs: No data available.



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Chemical Characterization (Hazardous Chemical Ingredients):

None

**Dangerous Components According to EC Criteria:** None

**Additional Information:** For wording of the listed risk phrases, refer to Section 16.

All human source materials have tested non-reactive for HBsAg, anti-HCV, anti HBe and negative for HIV 1, HIV 2 antibodies by FDA required tests. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.

### 4. FIRST AID MEASURES

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

**In Case of Skin Contact:** In cause of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**In Case of Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**In Case of Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of material are swallowed, call a physician immediately.

**Self-Protection of the First Aider:** Follow company specific safety procedures.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use extinguishing media suitable for surrounding fire, such as carbon dioxide, chemical foam, dry chemical or water spray.

**Extinguishing Media Which Must Not Be Used for Safety Reasons:** Unknown.

**Special Exposure Hazards Arising From the Substance or Preparation Itself, Combustion Products, Resulting Gases:** Emits toxic fumes under fire conditions.

**Special Protective Equipment for Fire-Fighters:** Fire fighters should wear NIOSH-approved or self-contained breathing apparatus and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** See Section 8.

**Environmental Precautions:** Follow proper disposal procedures.

**Methods for Cleaning Up:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations per Section 13.



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#### 7. HANDLING AND STORAGE

**Handling:** Follow good laboratory hygiene practices. See Section 8, Engineering Controls. Minimize contact and contamination of personal clothing and skin. Wash hands thoroughly after handling.

**Storage:** Upon receipt, store at -20°C. Avoid multiple/freeze thaw cycles. Store in original container. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above -20°C.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limit Values:**

**Exposure Controls:** This product is not expected to require special ventilation controls. Facilities storing or using this product should be equipped with an eyewash fountain and safety shower.

**Personal Protection Equipment:**

**Respiratory Protection:** Use respirators and components tested and approved under appropriate government standards.

**Hand Protection:** Wear chemical resistant protective gloves.

**Eye Protection:** Wear appropriate protective safety eye glasses or goggles.

**Body Protection:** Wear lab coat or other protective garments. Remove contaminated clothing promptly.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Powder

**Physical State:** Solid

**Color:** Not Available

**Odor:** Not Available

Parameter	Value
pH (20°C):	7.5
Melting Point/Range (°C):	Not Available
Boiling Point/Range (°C):	Not Available
Flash Point (°C):	Not Applicable
Ignition Temperature (°C):	Not Applicable
Vapor Pressure (°C):	Not Available
Density (g/cm <sup>3</sup> ):	Not Available
Bulk Density (kg/m <sup>3</sup> ):	Not Available
Water Solubility (20°C in g/L):	Fully Miscible
Partition Coefficient n-Octanol/Water (log Po/w):	Not Available
Viscosity, Dynamic (mPa s):	Not Available
Dust Explosion Hazard:	Not Applicable



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#### 10. STABILITY AND REACTIVITY

**Reactivity:** Unknown.

**Stability:** Stable under ordinary conditions of storage and use.

**Conditions to Avoid:** No decomposition if used and stored according to specifications.

**Materials to Avoid:** Not available.

**Hazardous Decomposition Products:** Nature of decomposition products not known.

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#### 11. TOXICOLOGICAL INFORMATION

Routes of exposure may include inhalation, skin absorption, and eye and skin contact.

**Acute Toxicity:** No data available.

**Irritant and Corrosive Effects:** No data available.

**Sensitization:** No data available.

**Carcinogenicity:** No data available. None of the components in this product at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

**Mutagenicity:** No data available.

**Reproductive Effects:** No data available.

**Teratogenicity:** No data available.

**Additional Toxicological Information:** This product is not subject to classification, according to the calculation method of the General EC Classification Guidelines for preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects according to our experience and information available to us.

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#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available.

**Mobility in Environmental Compartments:** No data available.

**Adsorption/Desorption:** No data available.

**Persistence and Degradability:** No data available.

**Physical- and Photo-Chemical Elimination:** No data available.

**Biodegradation:** No data available.

**Bioaccumulative Potential:** No data available.

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#### 13. DISPOSAL CONSIDERATIONS

**Appropriate Disposal / Product:** Dispose of unused product, spilled substance and waste in accordance with all applicable federal, state, local and provincial environmental and waste regulations.



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#### 14. TRANSPORT INFORMATION

**Land Transport (ADR/RID/GGVSE):** Not restricted. Not regulated as hazardous goods.

**Sea Transport (IMDG-Code/GGVSee):** Not restricted. Not regulated as hazardous goods.

**Air Transport (ICAO-IATA/DGR):** Not restricted. Not regulated as hazardous goods.

#### 15. REGULATORY INFORMATION

##### EU Regulations:

**Chemical Safety Assessment:** Observe general laboratory safety regulations when handling chemicals.  
This product is not subject to identification regulations under EC Directives.

#### 16. OTHER INFORMATION

##### Exposure Scenarios:

Routes of exposure may include inhalation, skin absorption, and eye and skin contact.

##### Exposure Controls:

Observe general laboratory safety regulations when handling chemicals. This product is not expected to require special ventilation controls. Facilities storing or using this product should be equipped with an eyewash fountain.

##### Personal Protection Equipment:

Respiratory Protection: A respirator is not expected to be required under normal conditions of use.

Hand Protection: Wear chemical resistant protective gloves.

Eye Protection: Wear appropriate protective safety eye glasses or goggles.

Body Protection: Wear lab coat or other protective garments. Remove contaminated clothing promptly.

This MSDS was prepared in accordance with the hazard criteria and content requirements of the EU Dangerous Substances Directive (67/548/EEC), Dangerous Preparations Directive (1999/45/EC), the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (EC) No 1907/2006) and EC 1272/2008 Classification, Labeling, Packaging (CLP). These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The information contained in this Material Safety Data Sheet is believed to be accurate but does not purport to be all inclusive and should be used only as a guide for experienced personnel. It is the responsibility of the user or supplier to determine the applicability of the data to the formulation of necessary safety precautions. Meridian Life Science, Inc. shall not be held liable for any damage resulting from the use of the above product or the information contained in this Material Safety Data Sheet.

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