Advanced Electrophoresis Solutions Ltd.

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **pI Marker 9.99 Peptide**
Part Number: **100236**
Manufacturer: Advanced Electrophoresis Solutions Ltd.
Address: 380 Jamieson Parkway, Cambridge, ON N3C 4N4, Canada
Support Email: support@aeslifesciences.com
Business Phone: (519) 653-6888
For Chemical Emergency Phone# (416) 995 9730

## 2. HAZARDS IDENTIFICATION

**Classification**

Classification under 2012 OSHA Hazard Communication Standard

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200

**Label Elements**

None required.

**Hazards not otherwise classified (HNOC)**

None identified.

## 3. COMPOSITION / INFORMATION ON INGREDIENT

| Ingredients | C.A.S.No. | % by Wt |
|---|---|---|
| DI $H_2O$ | 7732-18-5 | 94.1-94.9 |
| Mannitol | 69-65-8 | 5 |
| Proprietary pI | NA | 0.1-0.9 |

## 4. FIRST AID MEASURES

EYE CONTACT

Immediately flush with large amounts of water.

SKIN CONTACT

Immediately flush with large amounts of water.

IF SWALLOWED

Immediately give the victim a glass of water.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

**Unsuitable Extinguishing Media** No information available.

**Flash Point** No information available.

**Method** - No information available.

**Autoignition Temperature** No information available.

**Explosion Limits**

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2).

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

Health 1 Flammability 1 Instability 0 Physical hazards N/A

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

**Environmental Precautions**

Should not be released into the environment. See Section 12 for additional Ecological Information.

**Methods for Containment and Clean Up**

Clean up the spill carefully and place in container suitable for disposal.

## 7. HANDLING AND STORAGE

**HANDLING:**

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

**STORAGE**: Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PPE

**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

**Engineering Measures** None under normal use conditions.

**Personal Protective Equipment**

**Eye/face Protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection**

No protective equipment is needed under normal use conditions.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

No odor colorless to light yellow lyophilized powder. Stable at room temperature.

| | |
|---|---|
| **Physical State** | Solid |
| **Appearance** | Colorless to light yellow |
| **Odor** | Odorless |
| **Odor Threshold** | No information available. |
| **pH** | No information available. |
| **Melting Point/Range** | No information available. |
| **Boiling Point/Range** | No information available. |
| **Flash Point** | No information available. |
| **Evaporation Rate** | Not applicable. |
| **Flammability or explosive limits** | |
| **Upper** | No data available. |
| **Lower** | No data available. |
| **Vapor Pressure** | No information available. |
| **Vapor Density** | Not applicable. |
| **Specific Gravity** | No information available. |
| **Solubility** | Soluble in water. |
| **Autoignition Temperature** | No information available. |
| **Decomposition Temperature** | No information available. |
| **Viscosity** | Not applicable. |
| **Molecular Formula** | No information available. |
| **Molecular Weight** | No information available. |

## 10. STABILITY AND REACTIVITY

**Reactive Hazard** None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** None known, based on information available.

**Incompatible Materials** None known, based on information available.

**Hazardous Decomposition Products** Carbon monoxide (CO), Carbon dioxide (CO2).

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**: No data available.

**Inhalation**: No data available.

**Dermal**: No data available.

**Skin corrosion/irritation**: No data available.

**Serious eye damage/eye irritation**: No data available.

**Respiratory or skin sensitization**: No data available.

**Germ cell mutagenicity**: No data available.

**Carcinogenicity IARC**: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**: No data available.
**Specific target organ toxicity - single exposure**: No data available.
**Specific target organ toxicity - repeated exposure**: No data available.
**Aspiration hazard**: No data available.
**Additional Information RTECS**: Not available.

## 12. ECOLOGICAL INFORMATION

**Toxicity** No data available
**Persistence and degradability** No data available.
**Bioaccumulative potential** No data available.
**Mobility in soil** No data available.
**Results of PBT and vPvB assessment** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
**Other adverse effects** No data available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. TRANSPORT INFORMATION

Not regulated per U.S. DOT, IATA, or IMO.

## 15. REGULATORY INFORMATION

**UNITED STATES REGULATORY INFORMATION**
SARA LISTED: No.
**CANADA REGULATORY INFORMATION**
WHMIS Classification: Not applicable.

The proprietary ingredient is below OSHA or WHMIS 1.0% (w/w) hazardous chemicals criteria that required for reporting.

## 16. OTHER INFORMATION

**DISCLAIMER**

For R&D use only. Not for drug, household or other uses.

**WARRANTY**

This information is based on our present knowledge, and is believed to be correct. It shall be used only as a guide, but shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Advanced Electrophoresis Solutions Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product.

**REVISION NOTE**

Version 2.0 - Updated product composition and physical form (liquid to solid). SDS revised accordingly