Advanced Electrophoresis Solutions Ltd.

# MATERIAL SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### 1.1. Product Identifier

Product Name: **Condition Solution B (0.35%MC+4M Urea)**
Part Number: **101002**

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Use: Research use only
Uses Advised Against: Not for human or animal therapeutic or diagnostic purposes, not for consumer use.

### 1.3. Details of the supplier of the SDS

**Supplier/Manufacturer Information:**

Manufacturer: Advanced Electrophoresis Solutions Ltd.
Address: 380 Jamieson Parkway, Cambridge, ON N3C 4N4, Canada
Email: support@aeslifesciences.com
Business Phone: +1 (519) 653-6888

**EU Distributor Information:**

Distributor: Isogen Lifescience B.V.
Address: Veldzigt 2A, 3454 PW Utrecht, Netherlands
Email: support@isogen-lifescience.com
Business Phone: +31 30 6880771

### 1.4. Emergency Telephone Number:

Emergency Phone#: This product is not classified as hazardous and does not require an emergency phone number.

*This Safety Data Sheet is provided in English for research use only, in accordance with REACH Regulation (EC) No 1907/2006, Annex II.*

## 2. HAZARDS IDENTIFICATION

**Classification**

Classification according to Regulation (EC) No 1272/2008 (CLP): Not classified.

**GHS Label Elements**

No pictogram, signal word, or hazard statements required.

**Other Hazard**

None identified.

## 3. COMPOSITION / INFORMATION ON INGREDIENT

| Ingredients | C.A.S.No. | % by Wt |
|---|---|---|
| DI $H_2O$ | 7732-18-5 | 75.65 |
| Methyl Cellulose | 9004-67-5 | 0.35 |
| Urea | 0057-13-6 | 24.0 |

No hazardous components or substances with EU occupational exposure limits are present above the disclosure threshold.

## 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 (NFPA ratings provided for reference only)**
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

**8.1. Exposure Guidelines**

This product does not contain any substances with occupational exposure limit values established by EU, US, or Canadian regulatory agencies.

No EU Occupational Exposure Limits (OELs), Derived No-Effect Levels (DNELs), or Predicted No-Effect Concentrations (PNECs) have been established for the components of this mixture.

**8.2. Exposure Controls**

**Engineering Controls**

General laboratory ventilation is sufficient.

**Personal Protective Equipment**

**Eye/face Protection**

Wear chemical safety goggles compliant with European Standard EN166.

**Skin and body protection**

Wear suitable protective gloves and laboratory coat (EN 374 recommended).

**Respiratory Protection**

No protective equipment is needed under normal use conditions.

**Hygiene Measures**

Handle in accordance with good laboratory and industrial hygiene practices. Wash hands after use.

**Environmental exposure controls**

Avoid release to the environment. Dispose of contents and containers in accordance with local, regional, and national regulations.

## 9. Physical and chemical properties

Colorless to light yellow aqueous solution, odorless. Stable at room temperature.

| | |
|---|---|
| **Physical State** | Liquid |
| **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 ($CO_2$).
**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 present at ≥0.1% is classified as a 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

ADR/RID: Not regulated.
IMDG / IATA: Not regulated.

## 15. REGULATORY INFORMATION

**EU REGULATORY INFORMATION**
Regulation (EC) No 1272/2008 (CL P): Not classified as hazardous.
Regulation (EC) No 1907/2006 (REACH) Annex XIV (Authorization): Not applicable.
Regulation (EC) No 1907/2006 (REACH) Annex XVII (Restriction): Not applicable.
Substances of Very High Concern (SVHC): Not listed.
EU Occupational Exposure Limits (OELs): Not established.
Chemical Safety Assessment: Not required for this mixture.

## 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.