# **Eco Pre-stained Protein Ladder** Material Safety Data sheet

Identification of the preparation / Substance and of the company

Product Name : Eco Pre-stained Protein Ladder

Catalog Number : PAL-ECL-500

Protein/

Use of the preparation : For laboratory use.

Suitable for use as molecular weight standards for SDS-PAGE.

Company identification : Protein Ark., LTD.

Site : www.proteinark.com

E-mail : info@proteinark.com

#### Composition / Information on ingredients

	Ingredients :			
	Water	> 50 % (v/v)	EC#231-791-2	CAS#7732-18-5
	Glycerol	10-25 % (v/v)	EC#200-289-5	CAS#56-81-5
ŀ	Sodium Dodecyl Sulfate	1-3 %	EC#205-788-1	CAS#151-21-3
	Urea	<25 %	EC#200-315-5	CAS#57-13-6
	Tris- Phosphate	1-2 %	EC#230-260-2	CAS#6992-39-8
	Dithiothreitol	3%~16%	EC #222-468-7	CAS# 3483-12-3

Other components :

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

Additional information : For the wording of the listed risk phrases refer to section 16.

#### Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC, and is not labelled with danger symbols or indications of danger.

Hazards deriving from physical-chemical properties :

The data available do not support any physical or chemical hazard.

Human health hazards :

Inappropriate handling may cause formation of aerosols. Inhalation of aerosols may cause allergic type reactions in sensitized individuals. Prolonged skin contact may cause minor irritation.

Caution : Avoid inhalation, ingestion, and skin contacts. Environmental hazards:

The data available do not support any environmental hazard.



Calibre Scientific UK, Unit 5A, R-Evolution, The Advanced Manufacturing Park, Selden Telephone: +44 (0) 114 224 2257 Way, Rotherham, S60 5XA, UK

Email: info@proteinark.com Web: www.proteinark.com

## Material Safety Data sheet

# ProteinÅrk

#### First Aid Measures

### Ingestion :

If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints. Inhalation :

If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

#### Skin contact :

If symptoms of irritation after prolonged exposure occur, consult a doctor.

## Eye contact :

In case of contact, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

#### Fire-fighting measures

The preparation cannot cause fire.

Suitable extinguishing agents :

Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

Not suitable extinguishing agents : None.

Special exposure hazards from decomposition products : Not thoroughly investigated.

Protective equipment : Wear self-contained breathing apparatus and protective clothing.

## Accidental release measures

Personal precautions :

Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage. In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

Environmental precautions : No special measures required.

Methods for cleaning up :

Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

Additional information : No dangerous substances are released.

## Handling and storage

Handling : No further requirements.

Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid.

Avoid the formation of aerosols. Ventilate area.

Storage : Store at - 20°C.

None other specific requirements relating to the preparation.

Protein

Calibre Scientific UK, Unit 5A, R-Evolution, The Advanced Manufacturing Park, Selden Way, Rotherham, S60 5XA, UK

Email: info@proteinark.com Telephone: +44 (0) 114 224 2257 Web: www.proteinark.com

## Material Safety Data sheet

# Protein Årk

## Exposure controls / personal protection

Ingredients with limit values that require monitoring at the workplace :

The product does not contain any relevant quantities of materials with critical values that need to be monitored at the workplace.

General protective and hygienic measures :

The usual precautionary measures are the same as for chemicals handling.

Engineering measures :

None specific requirements relating to the preparation.

Personal protection :

- Respiratory protection : No special measures required.
- Hand protection : Wear rubber gloves. None special requirements to rubber.

Eye protection : No need to wear glasses (goggles) when ordinary operations with the preparation. Safety glasses are recommended during certain operations when aerosol formation is possible.

- Skin protection : The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). None specific requirements.

## Physical and chemical properties

Appearance : Liquid.

**Te** 

Color : Blue Odor : Odorless or weak pH-value at 25°C: ~7.5. Boiling point : ~ 100°C. Flash Point : Not applicable. Flammability / autoflammability : The preparation is not flammable/selfigniting. Explosive properties : The preparation does not possess explosive properties. Oxidizing properties : Not applicable. Vapor pressure : Not applicable. Relative density at 20°C : ~1 g/cm3. Solubility in/miscibility with water : Fully miscible. Fat solubility : Not applicable. Vapor density : Not applicable. Evaporation rate : Not applicable. Conductivity : Not applicable. Viscosity : Not applicable.

Protein/

Calibre Scientific UK, Unit 5A, R-Evolution, The Advanced Manufacturing Park, Selden Way, Rotherham, S60 5XA, UK Email: info@proteinark.com Telephone: +44 (0) 114 224 2257 Web: www.proteinark.com

## Material Safety Data sheet

# Protein Ark

### Stability and reactivity

Stability : Stable under storage conditions (see Section 7). Conditions to avoid : No conditions which may cause dangerous reactions. Possibility of hazardous reactions : No dangerous reactions known. Materials to avoid : Strong oxidizing agents, strong bases. Hazardous decomposition products : No dangerous decomposition products known. Hazardous polymerization : Will not occur.

#### **Toxicological information**

Routes of exposure :

Inhalation : Inhalation of aerosols may cause allergic type reactions in sensitized individuals.

Ingestion : Repeated ingestion or excessive dosage may be irritating.

Skin and eye contact : Prolonged contact may cause irritation.

Additional toxicological information :

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

#### **Ecological information**

Ecotoxicity :

The preparation is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to ecotoxicity.

Persistence and degradability : The preparation is readily biodegradable.

Bioaccumulative potential:

It is considered that the preparation does not accumulate in biota, and does not pass through the food chain. Other adverse effects : Not applicable.

#### **Disposal considerations**

The disposal of the product does not present a danger. No special disposal methods required, except to be in accordance with current local environmental regulations.

#### **Transport information**

Special precautions : None known.

Proper shipping name : Not dangerous goods according to transport regulations.

Transport regulations : No additional transport regulations are known to the supplier.



Calibre Scientific UK, Unit 5A, R-Evolution, The Advanced Manufacturing Park, Selden Telephone: +44 (0) 114 224 2257 Way, Rotherham, S60 5XA, UK

Email: info@proteinark.com Web: www.proteinark.com

IMDG : Non-hazardous for sea freight. ADR : Non-hazardous for road transport.

RID : Non-hazardous for rail transport.

ICAO/IATA : Non-hazardous for air transport.

Other information : The preparation may be stored in ice during the transportation.

#### **Regulatory information**

## US

Labelling according to US Regulations : Caution : Avoid contact and inhalation. US Regulatory information : SARA LISTED : No.

### EU

Labelling according to EU Guidelines : The preparation is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, and 88/379/ECC, and is not labelled with danger symbols or indications of danger. Canada

WHMIS classification : This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

DSL: No.

NDSL : No.

ote

## Other information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Protein Ark., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Protein /rk

Calibre Scientific UK, Unit 5A, R-Evolution, The Advanced Manufacturing Park, Selden Telephone: +44 (0) 114 224 2257 Way, Rotherham, S60 5XA, UK

Email: info@proteinark.com Web: www.proteinark.com