

**SECTION 1: Product and Company Identification****Identification of the substance or mixture**

**Product Name:** Chemiluminescent-HRP Western Blot Substrate  
**Catalog #:** 10630

**Company Identification**

Cepharm Life Sciences Inc.  
11830 W Market Place, Suite K  
Fulton, MD 20759  
USA  
Toll Free: 1-800-257-1565  
Phone: 410-636-4954

**24-hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Toll Free: 1-800-424-9300/ +1 703-527-3887 CCN 1010970**

**For Research Use Only. Not for use in diagnostic procedures.**

**SECTION 2: Hazards identification****GHS - Classification**

**Signal Word**  
None

**Health hazards**  
Not classified

**Physical hazards**  
Not classified

**Hazard Statements**  
Not Applicable

**Precautionary Statements**

**Prevention**  
Not Applicable

**Response**  
Not Applicable

**Storage**  
Not Applicable

**Disposal**  
Not Applicable

**Principle Routes of Exposure****Potential Health Effects**

**eyes**

May cause eye irritation with susceptible persons.

**Skin**

May cause skin irritation in susceptible persons.

**inhalation**

May be harmful by inhalation.

**Ingestion**

May be harmful if swallowed.

**Specific effects**

**Carcinogenic effects**

None.

**Mutagenic effects**

None.

**Reproductive toxicity** None.  
**Sensitization** None.  
**Target Organ Effects** No known effects under normal use conditions.

**HMIS**

**Health:** 0  
**Flammability:** 0  
**Reactivity:** 0

**SECTION 3: Composition / Information on Ingredients**

Component	CAS-No	EINECS-No	Weight %
TRIS Base 77-86-1 (1-5)	77-86-1	201-064-4	1-5
Ethylene glycol 107-21-1 (1-3)	107-21-1	203-473-3	1-3

We recommend handling all chemicals with caution.

**SECTION 4: First Aid Measures**

**Skin contact** Rinse cautiously with water for several minutes. Immediate medical attention is not required.  
**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.  
**Inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**  
Not Applicable

**Notes to Physician** Treat symptomatically

**SECTION 5: Firefighting Measures**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO2). Foam. Dry chemical.  
**Special protective equipment for firefighters** Standard procedure for chemical fires.  
**Specific hazards arising from the chemical** Not known

**SECTION 6: Accidental Release Measures**

**Personal precautions** Always wear recommended Personal Protective Equipment. Use personal protection equipment.  
**Methods for cleaning up** Soak up with inert absorbent material.  
**Environmental precautions**  
No special environmental precautions required.  
See Section 12 for more information.

**SECTION 7: Handling & Storage**

**Handling** Always wear recommended Personal Protective Equipment. No special handling advices are necessary.  
**Storage** Keep in a dry, cool and well-ventilated place.

## SECTION 8: Exposure Controls / Personal Protection

### Exposure Limits

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
TRIS Base	None	None	None	None
Ethylene glycol	None	None	None	None

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Hand protection</b>	Impervious gloves.
<b>Eye protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin and Body Protection</b>	Lightweight protective clothing.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No special environmental precautions required.

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a) Appearance	Form: liquid
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	9.5
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

### Other safety information

No data available

## SECTION 10: Stability & Reactivity

<b>Stability</b>	Stable under normal conditions.
<b>Materials to avoid</b>	No dangerous reaction known under conditions of normal use.
<b>Possibility of hazardous reactions</b>	Hazardous reaction has not been reported
<b>Hazardous decomposition products</b>	None under normal use conditions.
<b>polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None under normal processing.

## SECTION 11: Toxicological Information

### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
TRIS Base	= 5900 mg/kg (Rat)	No data available	No data available
Ethylene glycol	= 4700 mg/kg (Rat)	No data available	No data available

### Principle Routes of Exposure

#### Potential Health Effects

eyes	May cause eye irritation with susceptible persons.
Skin	May cause skin irritation in susceptible persons.
inhalation	May be harmful by inhalation.
Ingestion	May be harmful if swallowed.

Carcinogenic Effects	None.
Mutagenic effects	None.
Reproductive toxicity	None.
Sensitization	None.

## SECTION 12: Ecological Information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**Mobility** No information available.

**Biodegradation** No information available.

**Bioaccumulation** No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	Log Pow
Ethylene glycol	Pseudokirchneriella subcapitata EC50=6500 - 13000 mg/L (96 h)	Daphnia magna EC50=46300 mg/L (48 h)			logPow-1.93

## SECTION 13: Disposal Considerations

Dispose of contents/containers in accordance with local regulations.

## SECTION 14: Transport Information

### IATA

Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None
Environmental hazards	None

## SECTION 15: Regulatory Information

Component	US TSCA
TRIS Base 77-86-1 (1-5)	Listed
Ethylene glycol 107-21-1 (1-3)	Listed

### US Federal Regulations

#### SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:

Chemical Name	CAS-No	Weight %	SARA 313 – Threshold Values
Ethylene glycol	107-21-1	1-3	1.0

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following HAPs:

Component	CAS-No	Weight %	HAPS data
Ethylene glycol 107-21-1 (1-3)	107-21-1	1-3	Present

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	CAS-No	Weight %	Category
Ethylene glycol	107-21-1	1-3	Developmental

**WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**SECTION 16: Other Information****Disclaimer:**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not represent any guarantee of the properties of the product. Cepham Life Sciences Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.