

## SECTION 1: Product and Company Identification

### Identification of the substance or mixture

**Product Name:** Zymogram Sample Buffer  
**Catalog #:** 10506

### 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

### Classification of the substance or mixture

#### **Classification of the substance or mixture**

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.

### GHS Label elements, including precautionary statements

Pictogram  
Signal word



Warning

#### **Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### **Precautionary statements**

P280 Wear protective gloves.  
P280 Wear eye protection / face protection.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P362 Take off contaminated clothing and wash before reuse.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

**Additional information:** Contact with acids may cause release of toxic gases

#### **Other hazards**

Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable

## SECTION 3: Composition / Information on Ingredients

### Mixtures

CAS-No	Component	Concentration
7732-18-5	Water	50-100%
7647-14-5	Sodium chloride	10-20%
77-86-1	Tris(hydroxymethyl)aminomethane	5-10%

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First Aid Measures

### Description of first aid measures

#### General information

No special measures required.

#### After inhalation

Supply fresh air; consult doctor in case of complaints.

#### After skin contact

Generally, the product does not irritate the skin.

#### After eye contact

Rinse opened eye for several minutes under running water.

#### After swallowing

Induce vomiting and call for medical help.

### Most important symptoms and effects, both acute and delayed

No further relevant information available.

### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## SECTION 5: Firefighting Measures

### Extinguishing media

#### Suitable extinguishing media

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

### Special hazards arising from the substance or mixture

No further relevant information available.

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### Further information

No data available

## SECTION 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

### Environmental precautions:

No special measures required.

### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling & Storage

### Handling

#### Precautions for safe handling

No special measures required.

#### Information about protection against explosions and fires:

No special measures required.

### Conditions for safe storage, including any incompatibilities

#### Storage

#### Requirements to be met by storerooms and receptacles:

According to product specification

#### Information about storage in one common storage facility:

Not required.

#### Further information about storage conditions:

None.

**Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure Controls / Personal Protection

**Additional information about design of technical systems:** No further data; see item 7.

### Control parameters

#### Components with limit values that require monitoring at the workplace:

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

**Additional information:** The lists that were valid during the creation were used as basis.

### Exposure controls

#### Personal protective equipment

#### General protective and hygienic measures

Wash hands before breaks and at the end of work.

#### Breathing equipment:

Not required.

#### Protection of hands:

Protective gloves.

#### Material of gloves

Synthetic gloves

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

## 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	7.5
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	100°C
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

**Reactivity**  
No data available

**Chemical stability**  
Stable under recommended storage conditions.

**Possibility of hazardous reactions**  
No data available

**Conditions to avoid**  
No data available

**Incompatible materials**  
No data available

**Hazardous decomposition products**  
No dangerous decomposition products known

## SECTION 11: Toxicological Information

**Information on toxicological effects**  
**Acute toxicity**

LD/LC50 values for hazardous components per OSHA criteria:		
Tris(hydroxymethyl)aminomethane		CAS No.: 77-86-1
Oral	LD50	5900 mg/kg (rat)

**Primary irritant effect:**  
**on the skin:** Irritant to skin and mucous membranes.  
**on the eye:** Irritant effect.  
**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

**Carcinogenicity**

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

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**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

## SECTION 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

## SECTION 13: Disposal Considerations

### Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport Information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

## SECTION 15: Regulatory Information

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

No components are subject to the Pennsylvania Right to Know Act.

### New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **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.