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## SECTION 1: Product and Company Identification

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### Identification of the substance or mixture

**Catalog #:** 10507, 10507-1  
**Product Name:** Phosphatase Inhibitor Cocktail I [100X]

### 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.**

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## SECTION 2: Hazards identification

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### **Emergency Overview**

Combustible. Readily absorbed through skin. Target organ(s): Eyes. Skin.

### **HMIS Classification**

Health 0  
Flammability 2  
Reactivity 0  
Other --

### **NFPA Classification**

Health 0  
Flammability 2  
Reactivity 0  
Other --

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

Not a hazardous substance or mixture.

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## SECTION 3: Composition / Information on Ingredients

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Component	CAS-No.
DIMETHYL SULFOXIDE	67-68-5
Cantharidin	56-25-7
(-)-4-Bromotetramisole Oxalate	62284-79-1
Microcystin LR	101043-37-2

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## SECTION 4: First Aid Measures

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### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

### EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

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## SECTION 5: Firefighting Measures

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### Flammability of the product:

N/A

### Extinguishing Media:

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

### Hazardous thermal (de)composition products:

N/A

### Special Fire Fighting Procedures:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Combustible liquid. Emits toxic fumes under fire conditions.

### Flash Point:

N/A

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## SECTION 6: Accidental Release Measures

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### PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

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## SECTION 7: Handling & Storage

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### Storage:

Suitable: Keep tightly closed. Keep away from heat and open flame. Store at 2-8°C

### Handling:

Use only in area provided with appropriate exhaust ventilation. Keep away from heat and source of ignition. Empty containers pose a fire risk, evaporate residue under fume hood. Ground all equipment containing material. Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### Special Requirements:

Do not freeze.

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## SECTION 8: Exposure Controls / Personal Protection

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### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Hand: Compatible chemical-resistant gloves.

Eye: Chemical safety goggles.

### GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse.

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## SECTION 9: Physical and Chemical Properties

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### Information on basic physical and chemical properties

a) Appearance	Form: liquid; Color: colorless
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	No data available
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) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	Soluble
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

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## SECTION 10: Stability & Reactivity

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<b>Stability</b>	Stable under normal conditions.
<b>Hazardous decomposition products</b>	Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulfur oxides, Hydrogen bromide gas.
<b>Materials to avoid</b>	Acid chlorides, Phosphorus halides, Strong oxidizing agents, Strong reducing agents.
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to avoid</b>	Moisture

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## SECTION 11: Toxicological Information

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### Route of Exposure

Skin Contact: May cause skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: May cause eye irritation.  
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.  
Ingestion: May be harmful if swallowed.

### Target Organ(s) or System(s)

Eyes. Skin.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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## SECTION 12: Ecological Information

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No data available

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## SECTION 13: Disposal Considerations

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### Appropriate Method of Disposal of Substance or Preparation

Contact a licensed professional waste disposal service to dispose of this material. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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## SECTION 14: Transport Information

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### DOT

Proper Shipping Name: Combustible liquid, n.o.s.  
UN#: NA1993  
Class: COMBUSTIBLE LIQUID  
Packing Group: Packing Group III  
Hazard Label: None  
PIH: Not PIH

### IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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## SECTION 15: Regulatory Information

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### EU ADDITIONAL CLASSIFICATION

S: 23-24/25

Safety Statements: Do not breathe vapor. Avoid contact with skin and eyes.

### US CLASSIFICATION AND LABEL TEXT

US Statements: Combustible. Readily absorbed through skin.

Target organ(s): Eyes. Skin.

### UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

### CANADA REGULATORY INFORMATION

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

DSL: No

NDSL: No

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## SECTION 16: Other Information

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### HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	2
Physical Hazard	0

### NFPA Rating

Health hazard:	0
Fire Hazard:	2
Reactivity Hazard:	0

### 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.