

## SECTION 1: Product and Company Identification

### Identification of the substance or mixture

**Product Name:** SM Buffer  
**Catalog #:** 10405, 10405-1

### 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 in accordance with 29 CFR 1910 (OSHA HCS)

The product is not classified according to the Globally Harmonized System (GHS).

### Hazards not otherwise classified (HNOC) or not covered by GHS

No information known.

### Label elements

**GHS label elements:** Not applicable  
**Hazard pictograms:** Not applicable  
**Signal word:** Not applicable  
**Hazard statements:** Not applicable  
**WHMIS classification:** Not controlled

### Classification system

#### HMIS ratings (scale 0-4)

#### (Hazardous Materials Identification System)

Health (acute effects): 0  
 Flammability: 0  
 Physical Hazard: 0

### Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.  
**vPvB:** Not applicable.

## SECTION 3: Composition / Information on Ingredients

Chemical Name	Identifiers (CAS #)	Hazardous	Approximate Percentage %
Sodium Chloride	7647-14-5	Nonhazardous	0.58%
Magnesium Sulfate Heptahydrate	10034-99-8	Nonhazardous	0.24%
Gelatin	9000-70-8	Nonhazardous	0.01%
Tris-HCl	1185-53-1	Nonhazardous	5%
Water	N/A	Nonhazardous	-

## SECTION 4: First Aid Measures

### Description of first aid measures

#### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

#### In case of skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops or persists

#### In case of eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

#### If swallowed

Do not induce vomiting. Get medical attention if adverse health effects develop or persist.

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

No further relevant information available.

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

All treatment should be based on observed sign and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## SECTION 5: Firefighting Measures

### Extinguishing media

#### Suitable extinguishing media

This is a nonflammable aqueous solution. Use an extinguishing agent suitable for the surrounding fire.

#### Special hazards arising from the substance or mixture

Unusual fire and explosion hazards:	No specific fire or explosion hazard
Hazardous Combustions products:	None known

Special protective equipment and precautions for the fire-fighters:

No special measures required

#### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.  
Wear fully protective impervious suit.

## SECTION 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### Environmental precautions

Avoid run off to waterways and sewers.

### Methods and materials for containment and cleaning up

Absorb with liquid-binding material.  
Dispose contaminated material as waste according to item 13.

## SECTION 7: Handling & Storage

### Precautions for safe handling:

No special handling requirements for normal use of this material.

### Conditions for safe storage, including and incompatibilities

Storage:	Keep labeled container tightly closed and upright.
Incompatible materials or Ignition sources:	Keep away from strong oxidizers.

## SECTION 8: Exposure Controls / Personal Protection

### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

### Control parameters

Occupational exposure Limit values: Contains no substances with occupational exposure limit values.  
Appropriate engineering controls: General industrial hygiene practice.

### Personal protective equipment

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand Protection: Protective gloves. The glove material has to be impermeable and resistant to the product/the substance/ the preparation.

Respiratory Protection: None required under normal conditions of use

## 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	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Product does not sustain combustion
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	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

## SECTION 10: Stability & Reactivity

### Reactivity

No specific test data related to reactivity available for this product or its ingredients

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Under normal conditions of storage and used, hazardous reactions should not occur.

### Conditions to avoid

No specific data

### Incompatible materials

No specific data

### Hazardous decomposition products:

Under normal conditions of storage and used, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological Information

### Information on toxicological effects

**Acute toxicity**

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 effects known.

**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**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

The product is not subject to classification according to internally approved calculation methods for preparations.

## 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

**Additional ecological information:****General Notes:**

no data available

**Results of PBT and vPvB assessment**

no data available

**Other adverse effects**

no data available

## SECTION 13: Disposal Considerations

### Waste treatment methods

**Product waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

**Packaging waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations

## SECTION 14: Transport Information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

### Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

This product is provided only in non-bulk containers

### Special Precautions for user

None specified.

## 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

No SARA Hazards

### Massachusetts Right To Know Components

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

### Pennsylvania Right To Know Components

n/a

### New Jersey Right To Know Components

n/a

### 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

### HMIS Rating

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

### NFPA Rating

Health hazard:	0
Fire Hazard:	0
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.