

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

**Product Name:** MOPS Running Buffer [10X]  
**Catalog #:** 10379, 10379-1

**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****GHS Classification**

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200

**GHS label elements**

Not a hazardous substance or mixture according to US Regulation 29 CFR 1910.1200

**Other hazards**

None known.

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

**Substance / Mixture:** Mixture

**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
4-Morpholinopropanesulphonic acid	1132-61-2	4.19
Sodium hydroxide	1310-73-2	0.40
Ethane-1,2-diol	107-21-1	0.38

**SECTION 4: First Aid Measures**

**If inhaled:** No special precautions required.

**In case of skin contact:** Wash with water and soap as a precaution. If skin irritation persists, call a physician.

**In case of eye contact:** Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

**If swallowed:** Immediately give large quantities of water to drink.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** No information available.

**Notes to physician:** No information available.

## SECTION 5: Firefighting Measures

**Suitable extinguishing media:** Water spray  
Dry powder  
Foam

**Specific hazards during firefighting:** Heating or fire can release toxic gas.

**Further information:** Use water spray to cool unopened containers.

**Special protective equipment for Firefighters:** In the event of fire, wear self-contained breathing apparatus.

## SECTION 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment.

**Environmental precautions**  
General advice: Prevent product from entering drains.

### Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## SECTION 7: Handling & Storage

**Advice on safe handling:** No special precautions required.

**Conditions for safe storage:** Keep tightly closed.

**Recommended storage temperature:** 18 - 24 °C

## SECTION 8: Exposure Controls / Personal Protection

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sodium hydroxide	1310-73-2		2 mg/m <sup>3</sup>	ACGIH
		Ceil_Time	2 mg/m <sup>3</sup>	NIOSH/GUIDE
		PEL	2 mg/m <sup>3</sup>	OSHA_TRANS
			2 mg/m <sup>3</sup>	Z1A
		TLV-C	2 mg/m <sup>3</sup>	CAD ON OEL
Ethane-1,2-diol	107-21-1	(Aerosols)		ACGIH
		(Aerosols)	100 mg/m <sup>3</sup>	ACGIH
			50 ppm	Z1A
			125 mg/m <sup>3</sup>	
		STEL (Aerosol, inhalable)	10 mg/m <sup>3</sup>	ACGIHLIS_P
		TWA (Vapor fraction)	25 ppm	ACGIHLIS_P
		STEL (Vapor fraction)	50 ppm	ACGIHLIS_P
		TLV-C (Aerosols)	100 mg/m <sup>3</sup>	CAD ON OEL

### Hazardous components without workplace control parameters

Components	CAS-No.
4-Morpholinopropanesulphonic acid	1132-61-2

### Appropriate engineering controls Engineering measures:

Use only in area provided with appropriate exhaust ventilation.

### Personal protective equipment Respiratory protection: Hand protection

No personal respiratory protective equipment normally required.

### Eye protection: Skin and body protection:

Remarks: Wear suitable gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Tightly fitting safety goggles

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

a) Appearance	Form: aqueous solution Color: Colorless
b) Odor	None
c) Odor Threshold	No data available
d) pH	7-9
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	ca. 100 °C
g) Flash point	Does not flash
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	1.02 g/cm <sup>3</sup>
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

Possibility of hazardous reactions: Stable under normal conditions.

Conditions to avoid: Oxidizing agents

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products  
:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Sulphur oxides  
Nitrogen oxides (NO<sub>x</sub>)

## SECTION 11: Toxicological Information

### Carcinogenicity

<b>IARC</b>	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.
<b>OSHA</b>	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.
<b>NTP</b>	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.
<b>ACGIH</b>	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.

### Further information

Remarks: There is no data available for this product.

## SECTION 12: Ecological Information

### Ecotoxicity

Toxicity to fish: Remarks: no data available

### Persistence and degradability

Biodegradability: Result: no data available

**Bioaccumulative potential**

Bioaccumulation: Remarks: no data available

**Components:****Sodium hydroxide**Partition coefficient  
noctanol/water: Remarks: Not applicable**Ethane-1,2-diol**Partition coefficient:  
noctanol/water: log Pow: -1.93 - -1.34**Mobility in soil**Distribution among environmental  
compartments  
: Remarks: no data available**Other adverse effects**Ozone-Depletion Potential: Regulation: US. EPA Clean Air Act (CAA) Section 602 OzoneDepleting Substances (40 CFR 82, Subpt. A, App A & B)  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).**Additional ecological information:** No data is available on the product itself.**SECTION 13: Disposal Considerations****Disposal methods**

Waste from residues: Dispose of in accordance with local regulations. Contact waste disposal services.

**SECTION 14: Transport Information****IATA** Not dangerous goods  
UN number: Not applicable  
Proper shipping name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable  
Environmental hazards: no**IMDG** Not dangerous goods  
UN number: Not applicable  
Proper shipping name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable  
Environmental hazards: Marine pollutant: no**ADR:** Not dangerous goods  
UN number: Not applicable  
Proper shipping name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable  
Environmental hazards: no**RID:** Not dangerous goods  
UN number: Not applicable  
Proper shipping name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable  
Environmental hazards: no**DOT:** Not dangerous goods  
UN number: Not applicable  
Proper shipping name: Not applicable  
Transport hazard class: Not applicable  
Packing group: Not applicable  
Environmental hazards: no**TDG:** Not dangerous goods  
UN number: Not applicable  
Proper shipping name: Not applicable

Transport hazard class: Not applicable  
Packing group: Not applicable  
Environmental hazards: no

Special precautions for user: none

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not applicable

## SECTION 15: Regulatory Information

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium hydroxide	1310-73-2	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

See above: SECTION 2. Hazard Identification-GHS Classification

#### SARA 302

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

#### 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.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Components	CAS-No.	Component RQ (lbs)
Sodium hydroxide	1310-73-2	1000

The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:

Components	CAS-No.	Concentration
Sodium hydroxide	1310-73-2	0.1-1%

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

### US State Regulations

#### Massachusetts Right To Know

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

#### Pennsylvania Right to Know

Components	CAS-No.
Water	7732-18-5
4-Morpholinopropanesulphonic acid	1132-61-2

#### New York City Hazardous Substances

No components listed on the New York City Hazardous Substances List

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Components	CAS-No.
Ethane-1,2-diol	107-21-1

## 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.