

# Safety Data Sheet

REVISION: 02/28/2022

# **SECTION 1: Product and Company Identification**

# Identification of the substance or mixture

Product Name:	Tris Buffer, pH 7.0 [1M]
Catalog #:	10425, 10425-1

# **Company Identification**

Cepham 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

Not a hazardous substance or mixture.

# GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

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

## Mixtures

Synonyms:

Tris Buffer substance Tris(hydroxymethyl)aminomethane Buffer substance

Formula: Molecular Weight: C4H11NO3+HCI 154.8 g/mol (average)

# Hazardous components

Component	Classification	Concentration
Tris (hydroxymethyl) aminomethane		
CAS-No. 77-86-1		5-10%
EC-No. 201-064-4		
Registration Number: 01-2119957659-16-XXX		

# **SECTION 4: First Aid Measures**

# Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

# **SECTION 5: Firefighting Measures**

#### Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas

#### 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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

#### Environmental precautions

Do not let product enter drains.

# Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### Reference to other sections

For disposal see section 13.

# SECTION 7: Handling & Storage

#### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

# Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. hygroscopic Store under inert gas

#### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure Controls / Personal Protection

## **Control parameters**

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

# Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

## **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Do not let product enter drains.

# **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	7.0
<ul> <li>e) Melting point/freezing point</li> </ul>	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
<ul> <li>h) Evaporation rate</li> </ul>	No data available
i) Flammability (solid, gas)	No data available
<li>j) Upper/lower flammability or</li>	No data available
explosive limits	
k) Vapour pressure	No data available
I) 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
<ul> <li>p) Auto-ignition temperature</li> </ul>	No data available
<ul> <li>q) Decomposition temperature</li> </ul>	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 Bases, Oxidizing agents

#### Hazardous decomposition products

Other decomposition products - no data available In the event of fire: see section 5

# **SECTION 11: Toxicological Information**

# Information on toxicological effects

## Acute toxicity

no data available (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride) Inhalation: no data available (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride) Dermal: no data available (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride) no data available (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

## Skin corrosion/irritation

No data available

## Serious eye damage/eye irritation

Eyes - rabbit (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride) Result: Mild eye irritation

#### Respiratory or skin sensitization

No data available

# Germ cell mutagenicity

Not mutagenic in Ames Test. (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)

#### Carcinogenicity IARC:

ARC:	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 (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)

# Specific target organ toxicity - single exposure

no data available (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)

#### Specific target organ toxicity - repeated exposure

No data available

#### Aspiration hazard

no data available (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)

## **Additional Information**

**RTECS: Not available** 

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)

# SECTION 12: Ecological Information

# Toxicity

No data available	
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia - > 100 mg/l - 48 h (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)
Toxicity to algae	EC50 - other microorganisms - > 1,000 mg/l - 3 h (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)
Persistence and degradability Biodegradability	Remarks: Readily biodegradable, according to appropriate OECD test.
Bioaccumulative potential No data available	
Mobility in soil	

## no data available (2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride)

## 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

## ΙΑΤΑ

Not dangerous goods

# **SECTION 15: Regulatory Information**

#### SARA 302 Components

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

#### Massachusetts Right To Know Components

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

# Pennsylvania Right To Know Components

Tris (hydroxymethyl) aminomethane 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	CAS-No.	77-86-1 1185-53-1	Revision Date
New Jersey Right To Know Components Tris (hydroxymethyl) aminomethane 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	CAS-No.	77-86-1 1185-53-1	Revision Date

#### 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:	2		
Chronic Health Hazard: Flammability:	0		
Physical Hazard	0		
Filysical Hazalu	0		
NFPA Rating			
Health hazard:	2		
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.