

Safety Data Sheet

REVISION: 02/28/2022

SECTION 1: Product and Company Identification

Identification of the substance or mixture

Product Name: STM Buffer Catalog #: 10416, 10416-1

Company Identification

Cepham Life Sciences Inc. 11830 W Market Place, Suite K Fulton, MD 20759

USA Toll Free: 1-80

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 GHS-US classification

Not classified

GHS Label elements, including precautionary statements GHS-US labeling

No labeling applicable

Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition / Information on Ingredients

Mixtures

Name	Common Name (Synonyms)	Product Identifier (CAS#)	%	GHS-US Classification
tris(hydroxymethyl)aminomethane	1,1,1- tris(hydroxymethyl)methylamine / 1,3-propanediol, 2-amino-2- (hydroxymethyl)- / 2-amino-2- (hydroxymethyl)-1,3-propanediol / 2-amino-2- (hydroxymethyl)propane-1,3-diol / 2-amino-2-hydroxymethyl-1,3- propanediol / 2-amino-2-methylol- 1,3-propanediol / addex-tham / aminotrimethylolmethane / aminotris(hydroxymethyl)methane / methanamine, 1,1,1- tris(hydroxymethyl)- / methylamine,	77-86-1	0.05- 0.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

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1,1,1-tris(hydroxymethyl)-/ pehanorm / TALATROL / THAM / THAM set / THAM-E / trimethylolaminomethane / TRIS / tris (buffering agent) / tris amine buffer / TRIS AMINO / TRIS buffer / TRIS(base) / tris(hydroxymethyl)methanamine / tris(hydroxymethyl)methylamine / trisamin / trisamine / trisaminol / tris-hydroxymethylaminomethan / tris-hydroxymethylaminomethane TRISPUFFER / TRIS-STERIL / TRIZMA / trometamol / trometamole / tromethamine / TROMETHANE / tromethanmin / tutofusin TRIS

Full text of hazard classes and H-statements: see section 16.

SECTION 4: First Aid Measures

Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

Call a poison center/doctor/physician if you feel unwell. First-aid measures after ingestion:

Most important symptoms and effects, both acute and delayed

No additional information available

Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing media

Suitable extinguishing media

Water spray. Dry powder. Foam. Carbon dioxide.

Special hazards arising from the substance or mixture

The product is non-reactive under normal conditions of use, storage and transport.

Special protective equipment and precautions

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures: Ventilate spillage area

For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

Environmental precautions

Avoid release to the environment.

Methods and materials for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material.

Other information: Dispose of materials or solid residues at an authorized site.

Reference to other sections

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For further information refer to section 13.

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SECTION 7: Handling & Storage

Precautions for safe handling:

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including and incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure Controls / Personal Protection

Control parameters

tris(hydroxymethyl)aminomethane (77-86-1) Not applicable

Appropriate engineering controls

Ensure good ventilation of the work station. Appropriate engineering controls: Environmental exposure controls: Avoid release to the environment.

Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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 No data available f) Initial boiling point and boiling range g) Flash point No data available h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or 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 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

The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under normal conditions.

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Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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Conditions to avoid

None under recommended storage and handling conditions (see section 7).

Incompatible materials

No specific data

Hazardous decomposition products:

Hazardous decomposition products.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity Not classified

tris(hydroxymethyl)aminomethane (77-86-1)	droxymethyl)aminomethane (77-86-1)			
LD50 oral rat	5900 mg/kg (Rat)			
ATE US (oral)	5900 mg/kg body weight			

Skin corrosion/irritation: Not classified Serious eye damage/irritation: Not classified Respiratory or skin sensitization: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Reproductive toxicity: Not classified Specific target organ toxicity – single exposure: Not classified Specific target organ toxicity - repeated Exposure: Not classified Aspiration hazard: Not classified

SECTION 12: Ecological Information

Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Persistence and degradability

tris(hydroxymethyl)aminomethane (77-86-1)	
Persistence and degradability	Biodegradability in water: no data available

Bioaccumulative potential

ioacoamaiative potential			
ris(hydroxymethyl)aminomethane (77-86-1)			
Log Pow	-1.56		
Bioaccumulative potential	Bioaccumulation: not applicable.		

Mobility in soil

No additional information available

Other adverse effects

Effect on the global warming:

GWPmix comment:

No known effects from this product.

No known effects from this product.

SECTION 13: Disposal Considerations

Disposal methods

Waste treatment methods: Waste treatment methods.

SECTION 14: Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

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SECTION 15: Regulatory Information

US Federal Regulations

tris(hydroxymethyl)aminomethane (77-86-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

International regulations

CANADA

tris(hydroxymethyl)aminomethane (77-86-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

US State regulations

No additional information available

SECTION 16: Other Information

Full text of H-phrases:

H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation

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.

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