

SECTION 1 – IDENTIFICATION

Product Name:	1.0M Tris Buffer, pH 6.8 Ultra Pure Grade
Catalogue Number:	1415
Other means of identification:	Tris-HCI buffer

Recommended use of the chemical and restrictions on use: For R&D use only. Not for pharmaceutical, household or other uses.

Supplier Information:

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Emergency phone number:

Monday – Friday, 8:00 a.m. to 6:00 p.m. +65 6775 7318 (Singapore) +603 8943 3252 (Malaysia)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification:

Skin irritation, Category 2 Serious eye damage, Category 2

GHS Hazard Pictogram(s):



Signal Word: Warning

Hazards statements:

H315: Causes skin irritation. H319: Causes serious eye irritation.

Precautionary statements:

Prevention:

P264: Wash hands and skin thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response



P302+P352: IF ON SKIN: Wash with soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.

SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characterization:	Mixture
Chemical Identity: Synonyms:	Tris Base THAM Tris(hydroxymethyl)aminomethane Trisamine Trimethylol aminomethane Trisaminol TRIS
Molecular Formula: Molecular Weight:	2-Amino-2-(hydroxymethyl)-1,3-propanediol 1,1,1-Tris(hydroxy methyl) Methylamine Tromethamol (HOCH ₂) ₃ CNH ₂ 121.14 g/mol
Chemical Identity: Molecular Formula: Molecular Weight:	Hydrochloric Acid HCl 36.46 g/mol

Component	Classification	Concentration
Tris Base		
CAS-No: 77-86-1 EC-No: 201-064-4		10 % - 15 %
Hydrochloric Acid	-	
CAS-No: 7647-01-0 EC-No: 231-595-7	Met. Corr. 1; 1; STOT SE 3; H290, H314, H318, H335 Concentration limits: ≥ 25 %: Skin Corr. 1B, H314; 10 - < 25 %: Skin Irrit. 2, H315; 10 - < 25 %: Eye Irrit. 2, H319; ≥ 10 %: 6.9 3, H335; ≥ 0,1 %: Met. Corr. 1, H290;	≤4%

SECTION 4 – FIRST-AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact

For further information, please contact us at https://base-asia.com/contact.



Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult a physician.

Skin Contact

Immediately wash skin thoroughly with soap and copious amounts of water. Consult a physician.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration or if breathing is difficult, give oxygen. Consult a physician.

Ingestion

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

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

Indication of immediate medical attention and special treatment needed

Data not available.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing Media

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

Special Exposure Hazards

Carbon oxides, nitrogen oxides, hydrogen chloride gas

Special Fire-fighting Procedures

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Further Information

Data not available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Prevent skin/eye contact. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Environmental Precautions

Do not allow material into sewers and drainage systems.

Methods for Cleaning Up

Clean up spills immediately, observing precautions in the safety data sheet and label. Dispose into a chemical waste container.

SECTION 7 – HANDLING AND STORAGE



Precautions for safe handling

Use with adequate ventilation as necessary or desired. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all SDS/ label precautions. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container in a cool, dry and well-ventilated area.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits

Component	CAS-No.	Value	Control parameters	Basis
Hydrochloric acid	7647-01-0	PEL (short-term)	5 ppm 7.5 mg/m³	Singapore. Workplace Safety and Health Act – First Schedule Permissible Exposure Limits of Toxic Substances

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice.

Eye/ Face Protection

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

Skin/ Hand 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

For further information, please contact us at https://base-asia.com/contact.



Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. 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		
a)	Appearance	Colourless solution
b)	Odour	Odourless
c)	Odour Threshold	Not available
d)	рН	6.6 – 7.0 (Neat, 25 °C)
e)	Melting/freezing point	Not available
f)	Initial boiling point and boiling range	Not available
g)	Flash point	Not available
h)	Evaporation rate	Not available
i)	Flammability (solid, gas)	Not available
j)	Upper/lower flammability or explosive limits	Not available
k)	Vapour pressure (mm Hg)	Not available
I)	Vapour density	Not available
m)	Relative density	Not available
n)	Water solubility	Not available
0)	Partition coefficient: n-octanol/water	Not available
p)	Autoignition temperature	Not available
q) r)	Decomposition temperature Viscosity	Not available Not available



SECTION 10 – STABILITY AND REACTIVITY

Reactivity Data not available.

Chemical stability Data not available.

Data not available.

Possibility of hazardous reactions

Data not available.

Conditions to avoid

Data not available.

Incompatible material

Bases, Oxidizing agents, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen chloride gas

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity Data not available.

Data not available.

Skin corrosion/irritation

Data not available.

Serious eye damage/eye irritation

Data not available.

Respiratory or skin sensitization

Data not available.

Germ cell mutagenicity

Data not available.

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.

Reproductive toxicity

Data not available.

Specific target organ toxicity – single exposure Data not available.

Specific target organ toxicity – repeated exposure Data not available. Aspiration hazard



Data not available.

Other information

RTECS: Data not available

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity Data not available.

Persistence and degradability Data not available.

Bioaccumulative potential Data not available.

Mobility in soil Data not available.

Other adverse effect

Data not available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose off as unused product.

SECTION 14 – TRANSPORT INFORMATION			
UN Number ADR/RID: -	IMDG: -	IATA-DGR: -	
UN Proper Shipping Name:ADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA-DGR:Not dangerous goods			
Transport Hazard Class(es) ADR/RID: -	IMDG: -	IATA-DGR: -	
Packing Group ADR/RID: -	IMDG: -	IATA-DGR: -	
Environmental Hazards ADR/RID: no	IMDG: marine pollutant: no	IATA-DGR: no	
Special Precaution for Users Data not available			
SECTION 15 – REGULATORY INFORMATION			

For further information, please contact us at <u>https://base-asia.com/contact</u>.



Safety, health and environmental regulations/legislation specific for the substance or mixture Data not available

SECTION 16 – OTHER INFORMATION

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Axil Scientific Pte Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.