

SAFETY DATA SHEET

Version	2.0	Issue Date 14 Jul 2011
Revision Date	16 Nov 2010	
Supersedes	23 Mar 2010	Generic GHS format – No country specific data

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name TRIS BUFFER SOLUTION (0.05 M, 0.1 M, 0.25 M)
Brand Endosafe
Product Codes BT101, BT103, BT104, BT105, BT106

Intended Use R&D/Experimental use only

Manufacturer Charles River
Division Endotoxin and Microbial Detection
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SECTION 2: HAZARDS IDENTIFICATION

Classification

Not a hazardous substance or mixture according to GHS criteria.

Eye damage/irritation	(Category 2)
Specific target organ toxicity, SE	(Category 3)
Skin corrosion/irritation	(Category 3)

Label elements

Pictogram	This product does not require labeling.
Signal word	Warning

Hazard statements

H316	Causes mild skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

Precautionary Statements

P305+P351+P338	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present, continue rinsing
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name Tris hydrochloride solution

Synonyms Tris buffer

Components	CAS#	EC#	Concentration, %
Water	7732-18-5	231-791-2	> 97
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	< 3
2-Amino-2-(hydroxymethyl)-1, 3-propanediol hydrochloride	1185-53-1	214-684-5	< 1.4

SECTION 4: FIRST AID MEASURES

Eye contact Rinse immediately with plenty of water.

Skin contact Wash off with soap and plenty of water.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth with water.

Inhalation Move person into fresh air. If not breathing give artificial respiration consult a physician

SECTION 5: FIRE-FIGHTING MEASURES

Flash point Not available

Ignition temperature Not available

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

Fire fighting procedures Wear self contained breathing apparatus for fire fighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid breathing vapors mist or gas.

Environmental precautions Prevent product from entering drains.

Methods for cleaning Keep in suitable, closed containers for disposal

SECTION 7: HANDLING AND STORAGE

Handling Wear personal protective equipment and avoid contact with skin and eyes. Good laboratory technique should be used in handling product.

Storage Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures	Contains no substances with occupational exposure limit values
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eye protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection	Wear appropriate protective gloves and clothes to prevent skin exposure.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Clear liquid
Odor	Not available
pH	7.2 – 9.2 (1:10 dilution @ 20 – 25°)
Melting/freezing point	Not available
Boiling point	Not available
Flash point	Not available
Freezing point	Not available
Evaporation rate	Not available
Flammability	Not available
Upper/lower flammability limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Water solubility	Soluble
Partition coefficient: n-octanol/water	Not available
Decomposition temperature	Not available
Viscosity	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Materials to avoid	Bases and oxidizers
Conditions to avoid	Excessive heat
Hazardous polymerization	Will not occur
Hazardous decomposition	Hazardous decomposition products formed under fire conditions include hydrogen chloride gas and oxides of carbon and nitrogen (NO _x).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Not available
Skin corrosive/Irritant	Not available
Serious eye damage/irritation	Not available
Respiratory sensitization	Not available
Germ cell mutagenicity	Not available
Carcinogenicity	
IARC	No components 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	Not available
Specific target organ systemic toxicity (single exposure)	Not available
Specific target organ systemic toxicity (repeated exposure)	Not available
Aspiration hazard	Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Not available
Persistence/degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Other adverse effects	Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Product	Observe all federal, state, and local environmental regulation
Contaminated packaging	Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

SECTION 16: OTHER INFORMATION

Disclaimer: Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Charles River Endosafe makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Charles River Endosafe be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

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