

# SAFETY DATA SHEET

Version 2.0 Issue Date 14 Jul 2011  
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Supersedes 23 Mar 2010 According to Regulation (EC) No. 1907/2006

## 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  
**Address** 1023 Wappoo Rd  
Suite 43-B  
Charleston, SC 29407  
**Telephone** 001 843 402 4900  
**Emergency** 001 843 402 4900

## SECTION 2: HAZARDS IDENTIFICATION

### Classification

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

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

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

<b>Eye contact</b>	Flush eyes with plenty of water.
<b>Skin contact</b>	Wash off with soap and plenty of water.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water.
<b>Inhalation</b>	Move person into fresh air. If not breathing give artificial respiration consult a physician

### SECTION 5: FIRE-FIGHTING MEASURES

<b>Flash point</b>	Not available
<b>Ignition temperature</b>	Not available
<b>Extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Fire fighting procedures</b>	Wear self contained breathing apparatus for fire fighting if necessary

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid breathing vapors mist or gas.
<b>Environmental precautions</b>	Prevent product from entering drains.
<b>Methods for cleaning</b>	Keep in suitable, closed containers for disposal

### SECTION 7: HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment and avoid contact with skin and eyes. Good laboratory technique should be used in handling product.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering measures</b>	Contains no substances with occupational exposure limit values
<b>Respiratory protection</b>	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).

<b>Eye protection</b>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothes to prevent skin exposure.
<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practices.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

## SECTION 10: STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Materials to avoid</b>	Bases and oxidizers
<b>Conditions to avoid</b>	Excessive heat
<b>Hazardous polymerization</b>	Will not occur

**Hazardous decomposition** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas.

### 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

**PBT and vPvB assessment** Not available

### SECTION 13: DISPOSAL CONSIDERATIONS

**Product** Observe all federal, state, and local environmental regulations

**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

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