

# SAFETY DATA SHEET

<b>Version</b>	2.0	<b>Issue Date</b>	14 Jul 2011
<b>Revision Date</b>	16 Nov 2010		
<b>Supersedes</b>	23 Mar 2010	<b>According to Regulation (EC) No.</b>	1907/2006

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**Product Name:** CATION-BUFFER SOLUTION (0.5 M MgSO<sub>4</sub> in 1 M TRIS)  
**Brand:** Endosafe  
**Product Code(s):** BC1000

**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
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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS#	EC#	Concentration, %
Water	7732-18-5	231-791-2	79.3
Tris (hydroxymethyl) aminomethane	77-86-1	201-064-4	3.5
Magnesium sulfate	7487-88-9	231-298-2	5.8
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride (1:1)	1185-53-1	214-684-5	11.4

### 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>	No data available
<b>Ignition temperature</b>	No data 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>	6.8 - 7.6 (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 – Hydrogen chloride gas, oxides of carbon, nitrogen (NOx), sulphur and magnesium.

## 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** No data available

**Persistence/degradability** No data available

**Bioaccumulative potential** No data available

**Mobility in soil** No data available

**PBT and vPvB assessment** No data 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

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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**Prepared by** Charles River Laboratories  
Phone: 001 843 402 4900  
[www.criver.com](http://www.criver.com)