

# SAFETY DATA SHEET

Generic GHS format – No country specific data

## 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 Address** Charles River Endosafe, a Division of Charles River Laboratories, Inc.  
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Suite 43-B  
Charleston, SC 29407

**Telephone** 001 843 402 4900  
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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, and continue rinsing.

### 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
2-Amino-2-(hydroxymethyl)-1, 3-propanediol hydrochloride	1185-53-1	214-684-5	11.4

### SECTION 4: FIRST AID MEASURES

<b>Eye contact</b>	Rinse immediately 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 techniques 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.
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<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 at 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
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<b>Materials to avoid</b>	Bases and oxidizers
<b>Conditions to avoid</b>	Excessive heat
<b>Hazardous polymerization</b>	Will not occur
<b>Hazardous decomposition</b>	Hazardous decomposition products formed under fire conditions include hydrogen chloride gas and oxides of carbon and nitrogen (NO <sub>x</sub> ).

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Not available
<b>Skin corrosive/Irritant</b>	Not available
<b>Serious eye damage/irritation</b>	Not available
<b>Respiratory sensitization</b>	Not available
<b>Germ cell mutagenicity</b>	Not available
<b>Carcinogenicity</b>	
<b>IARC</b>	No components of this product present at levels greater than or equal to 0.1% are identified as a probable, possible or confirmed human carcinogen by IARC.
<b>Reproductive toxicity</b>	Not available
<b>Specific target organ systemic toxicity (single exposure)</b>	Not available
<b>Specific target organ systemic toxicity (repeated exposure)</b>	Not available
<b>Aspiration hazard</b>	Not available

### SECTION 12: ECOLOGICAL INFORMATION

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

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Product</b>	Observe all federal, state, and local environmental regulations.
<b>Contaminated packaging</b>	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 users 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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