

SAFETY DATA SHEET

Generic GHS format - No country specific data

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name CONTROL STANDARD ENDOTOXIN

Brand Endosafe Product Codes E110, E120

Intended Use R&D/Experimental use only

Manufacturer Address

r Charles River Endosafe, a Division of Charles River Laboratories, Inc.

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 dangerous substance or mixture according to GHS criteria.

Label elements None

Hazard statements None

Other hazards Lipopolysaccharides are highly pyrogenic. Administered intravenously, the

minimal pyrogenic dose in humans has been estimated at 4 ng/kg. Their

toxicological properties have not been fully investigated.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name Endotoxin, Lipopolysaccharides from Escherichia coli 055:B5 co-lyophilized in a

stabilized medium

Synonyms LPS, CSE, Endotoxin

Components	CAS#	RTECS#	EC#	Concentration
Lipopolysaccharides, from Escherichia coli 055:B5	93572-42-0	JZ2650000	297-473-0	≤ 0.5 µg

SECTION 4: FIRST AID MEASURES

Eye contact Flush eyes with plenty of water.

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Skin contact Rinse immediately 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 mediaUse extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Additional information This material is assumed to be combustible. Burning may produce

irritating fumes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

breathing dust. Ensure adequate ventilation.

Environmental precautions Prevent product from entering drains.

Methods for cleaningUse a wet sponge or damp cloth. 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 techniques should be used in handling product.

Storage Recommended storage temperature: 2 - 8 °C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measuresContains 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 protectionUse 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 measuresHandle in accordance with good industrial hygiene and safety practices.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state Powder, lyophilized

Odor Not available

pH Not available

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 applicable

Decomposition temperature Not available

Viscosity Not applicable

SECTION 10: STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Materials to avoid Strong acids, bases and oxidizers

Conditions to avoid Heat

Hazardous polymerization None under normal processing conditions

Hazardous decomposition Hazardous decomposition products formed under fire conditions –

Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity (LD50)

Oral Studies with a similar *E. coli* serotype report a dose of 48.3 mg/kg [Rat]

Intraperitoneal 7.6 mg/kg [Rat]

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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% are identified as a probable, possible or confirmed human

carcinogen by IARC.

Reproductive toxicity Studies of pregnant rats treated intraperitoneally with similar E. coli

endotoxin showed an increase in fetal hydrocephalus and neuronal necrosis. Intravenous doses up to 1000 µg resulted in resorptions and dead fetuses but no increase in congenital defects. Similar studies involving guinea pigs showed an increase in malformations and

resorptions when given doses of 10 to 20 µg/kg intravenously.

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

Aquatic and terrestrial 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 regulations.

Contaminated packaging Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

ADR/RID Not dangerous goods

IMDG Not dangerous goods

Not dangerous goods

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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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