

MATERIAL SAFETY DATA SHEET

Version	2.0	Issue Date	15 Jul 2011
Revision Date	06 Apr 2011		
Supersedes	21 Jun 2001	American National Standard	ANSI Z400.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name	POSITIVE PRODUCT CONTROL (PPC)
Brand	Endosafe
Product Codes	PC100, PC200
Manufacturer	Charles River
Division	Endotoxin and Microbial Detection
Address	1023 Wappoo Rd Suite 43-B Charleston, SC 29407
Telephone	(843) 402-4900
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SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview 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.

OSHA Hazards No OSHA hazards - This product contains no substances which at their given concentration are considered hazardous. For in vitro purposes only, not for use in humans.

NFPA Rating Health = 0, Fire = 1, Instability = 0
HMIS Classification Health = 0, Flammability = 1, Physical hazards = 0

Potential Health Effects

Eyes	May cause eye irritation
Skin	May be harmful if absorbed through skin, may cause skin irritation.
Inhalation	May be harmful if inhaled, may cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name Limulus Amebocyte Lysate (LAL) and Lipopolysaccharides (LPS) co-lyophilized in a buffered medium.

Components	CAS#	RTECS#	EC#	Concentration
Hemocyte, limulus polyphemus, lysate	68606-22-4	-	271-731-2	< 1mg
Lipopolysaccharides, from Escherichia coli 055:B5	93572-42-0	JZ2650000	297-473-0	0.05 µg

SECTION 4: FIRST AID MEASURES

Eye contact Flush eyes with plenty of water.

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 media Use 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

Personal precautions Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions Prevent product from entering drains.

Methods for cleaning Use 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 technique should be used in handling product.
Storage	Recommended storage temperature: 2 - 8 °C

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	Powder, lyophilized
Odor	Not available
pH	Not available
Melting/freezing point	Not available
Boiling point	Not available
Flash 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 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	Will not occur
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]
Chronic exposure	Not available
Irritation and corrosion	Not available
Carcinogenic effects	
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.
ACGIH	No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No OSHA hazards

Mutagenic effects	Not available
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.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	Not available
Persistence/degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	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

DOT	Not regulated hazardous material
IATA	Not regulated hazardous material
IMDG	Not regulated hazardous material

SECTION 15: REGULATORY INFORMATION

OSHA Hazards	No OSHA hazards
TSCA Status	All components are listed on the TSCA inventory
SARA 302 Components	No components in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 311/312 Hazards	No components in this material are subject to the reporting requirements of SARA Title III, Section 311/312
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

DSL Status**CAS# 68606-22-4**

This substance is specified on the DSL

CAS# 93572-42-0

This substance is not specified on the DSL/NDSL list and has been classified according to the hazard criteria of the CPR and contains all of the information required by the CPR.

WHMIS

Not WHMIS controlled

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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