

MATERIAL SAFETY DATA SHEET

Version	2.0	Issue Date	15 Jul 2011
Revision Date			
Supersedes		American National Standard	ANSI Z400.1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name S-2423 SUBSTRATE
Brand Endosafe
Product Code S100

Manufacturer Charles River
Division Endotoxin and Microbial Detection
Address 1023 Wappoo Rd
 Suite 43-B
 Charleston, SC 29407

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SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards No OSHA Hazards
NFPA Rating Health = 0, Fire = 1, Instability = 0
HMS 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 Synthetic chromophoric peptide co-lyophilized with mannitol
Synonyms Chromogenic substrate, S-2423

Components	CAS#	RTECS#	EC#	Concentration
Mannitol	69-65-8	OP2060000	200-711-8	~ 80%
Synthetic chromophoric peptide	-	-	-	~ 20%

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.

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	Not available
Hazardous polymerization	Will not occur
Hazardous decomposition	Hazardous decomposition products formed under fire conditions – Carbon oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity (LD50)	Not available
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 components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Mutagenic effects Not available

Reproductive toxicity Not available

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 This product contains the following component that is not on the TSCA inventory: Substrate S-2423 (synthetic chromophoric peptide)

SARA 302 Components No components of this kit are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards No components of this kit are subject to the reporting requirements of SARA Title III, Section 311/312.

SARA 313 Components	This kit 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	Substrate S-2423 (synthetic chromophoric peptide) 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 Classification	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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