

SAFETY DATA SHEET

Generic GHS format – No country specific data

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name Endotoxin Indicator
Brand Endosafe
Product Codes EVV2K, EVV10K, EVV100K, EVV1M, EVV2.5M, EVV10M
Intended Use Dry Heat Oven Validations
Manufacturer Address Charles River Endosafe, a Division of Charles River Laboratories, Inc.
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Charleston, SC 29407
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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 derived from *Escherichia coli* 055:B5
Synonyms LPS, CSE, Endotoxin

Components	CAS#	RTECS#	EC#	Concentration
Lipopolysaccharides, from <i>Escherichia coli</i> 055:B5	93572-42-0	JZ2650000	297-473-0	0.2 µg – 1 mg

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 techniques should be used in handling product.
Storage	Recommended storage temperature: 2 - 25 °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	The vial appears empty since the dried endotoxin contains no fillers or stabilizers.
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 <i>E. coli</i> serotype report a dose of 48.3 mg/kg [Rat]
Intraperitoneal	7.6 mg/kg [Rat]
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.
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Reproductive toxicity	Studies of pregnant rats treated intraperitoneally with similar <i>E. coli</i> 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.
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Specific target organ systemic toxicity (single exposure)	Not available
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Specific target organ systemic toxicity (repeated exposure)	Not available
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Aspiration hazard	Not available
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SECTION 12: ECOLOGICAL INFORMATION

Aquatic and terrestrial toxicity	Not available
Persistence/degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
PBT and vPvB assessment	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
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 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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