



## Material Safety Data Sheet

### Endospeccy® ES-50M Kit

MSDS Number: SI-020150E

Effective date: 06/28/2012

#### 1. PRODUCT IDENTIFICATION

**Product name:** Endospeccy® ES-50M Kit**Synonyms:** Limulus Amebocyte Lysate (LAL) Reagent**Supplier:**

SEIKAGAKU CORPORATION

6-1, Marunouchi 1-chome, Chiyoda-ku

Tokyo 100-0005, Japan

Telephone: 81-3-5220-8953

Facsimile: 81-3-5220-8956

**Emergency telephone number:** 81-3-5220-8953

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name	CAS Number	Hazardous
Endospeccy® ES-50M Kit	-	No
Component Name	CAS Number	Hazardous
LAL Reagent (factor C-pathway)	68606-22-4	No
Buffer	-	No
Distilled Water (Endotoxin and $\beta$ -Glucan Free)	7732-18-5	No

#### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** May cause skin irritation and/or dermatitis**Principle routes of exposure:** Skin**Inhalation:** May cause irritation of respiratory tract**Ingestion:** May be harmful if swallowed.**Skin contact:** May cause allergic skin reaction**Eye contact:** Avoid contact with eyes**Statements of hazard:** MAY CAUSE ALLERGIC SKIN REACTION.

For additional information on toxicity, please refer to 11. Toxicological Information.

#### 4. FIRST AID MEASURES

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**Inhalation:** Remove to fresh air. Call a physician immediately.**Skin contact:** Rinse immediately with plenty of water and seek medical advice.**Ingestion:** Wash out mouth with water provided person is conscious. Call a physician immediately.**Eye contact:** Rinse immediately with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

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## 5. FIRE FIGHTING MEASURES

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**Flash Point:** No data available

**Extinguishing Media:** Use water spray, CO<sub>2</sub>, dry chemical powder or appropriate foam.

**Fire Fighting Procedures:** Fire fighters should wear protective clothing and self-contained breathing apparatus.

**Unusual Fire/Explosion Hazard:** Emits irritant fumes under fire conditions.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal Precautions:** Wear protective equipment.

**Environmental precautions:** Prevent product from entering drains.

**Methods for cleaning up:** Sweep up and place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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## 7. HANDLING AND STORAGE

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**Storage Precautions:** Store at 2 to 8°C. Do not Freeze. Keep containers closed. Store away from heat.

**Handling:** Use only in area provided with appropriate exhaust ventilation.

**Safe handling advice:** Wear personal protective equipment.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Engineering measures:** Ensure adequate ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** Breathing apparatus only if aerosol or dust is formed.

**Hand protection:** Pvc or other plastic material gloves

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect.

**Eye protection:** Safety glasses with side-shields

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Physical state:

	LAL Reagent	Buffer	Distilled Water
Form	Powder	Liquid	Liquid
Color	White	Clear	Clear

**Formula:** No data available

**Molecular weight:** -

**Melting point/range:** No data available at this time.

**Boiling point/range:** No data available at this time.

**Density:** No data available

**Vapor pressure:** No data available

**Evaporation rate:** No data available

**Vapor density:** No data available

**Solubility (in water):** Soluble

**Flash point:** No data available

**Autoignition temperature:** No data available

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## 10. STABILITY AND REACTIVITY

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**Stability:** Stable under recommended storage conditions.

**Polymerization:** None under normal processing.

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.

**Materials to avoid:** Strong oxidising agents

**Conditions to avoid:** Exposure to air or moisture over prolonged periods.

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## 11. TOXICOLOGICAL INFORMATION

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**Route of Exposure:**

Multiple Routes: May cause irritation. May be harmful by inhalation, ingestion, or skin absorption.

**Sensitization:** Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

**Conditions Aggravated by Exposure:** The toxicological properties have not been thoroughly investigated.

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## 12. ECOLOGICAL INFORMATION

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**Mobility:** No data available

**Bioaccumulation:** No data available

**Ecotoxicity effects:** No data available

**Aquatic toxicity:** No data available

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## 13. DISPOSAL CONSIDERATIONS

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**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

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## 14. TRANSPORT INFORMATION

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**UN/Id No:** Not regulated

**DOT:**

**Proper shipping name:** Not regulated

**Non-Hazardous for Transport:** This substance is considered to be non-hazardous for transport.

**IATA:**

**Non-Hazardous for Air Transport:** Non-hazardous for air transport.

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## 15. REGULATORY INFORMATION

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**International Inventories**

<b>Inventory - United States TSCA - Sect. 8(b)</b>	: Not Listed
<b>Canada DSL Inventory List</b>	: Not Listed
<b>Inventory - Japan</b>	: Not Listed
<b>EU EINECS List</b>	: Not Listed

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## 16. OTHER INFORMATION

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**Disclaimer:** For laboratory use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and is intended to be used only as a guide. SEIKAGAKU BIOBUSINESS CORPORATION will not be held responsible for any damage from handling or from contact with the above product.

End of MSDS

