



ASSOCIATES OF  
**CAPE COD**  
INCORPORATED

Form

Document Number: MSD024

Page 1 of 3

Revision 000

Document Title:  
per ISO/DIS 11014

Lipopolysaccharide, Endotoxin, Control Standard Endotoxin (CSE),  
Pyrogen

### 1. Identification of substance

- **Product Name** Lipopolysaccharide, Endotoxin, Control Standard Endotoxin (CSE), Pyrogen
- **Catalog number** E0005, E0010, E0125, E5000, E0100, EC010, PC010, C1500, CD060
- **Manufacturer/Supplier:**  
Associates of Cape Cod, Inc.  
124 Bernard E. Saint Jean Drive  
East Falmouth, Massachusetts 02536  
Tel : (800) 848-3248  
Fax : (508) 540-8680
- **Information Department:** Technical Services, Safety Officer
- **Emergency information:**  
In case of a chemical emergency, spill, fire, exposure or accident contact Associates of Cape Cod at:  
(800) 848-3248 or (508) 540-3444.

### 2. Composition/Data on components

- **Chemical characterization:**
  - **Description:** White, amorphous powder
- **Dangerous components:** See section 3 for hazards

### 3. Hazards identification

**Hazard description:** Lipopolysaccharide

- **Information pertaining to particular danger for man and environment:**
- **LD<sub>50</sub>:** 56 mg/kg imp-mouse (small)
- **Effects of Over Exposure:** Lipopolysaccharide is highly toxic upon introduction into the bloodstream and is pyrogenic.
- **Classification system:**
- **NEPA ratings (scale 0-4)**

### 4. First aid measures

- **General information:** If injected, seek medical help immediately
- **After inhalation:** Move person to fresh air. Seek medical attention if irritation or pain is experienced.
- **After skin contact:** Flush area with copious amounts of running water.
- **After eye contact:** Flush area with copious amounts of running water. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice if irritation or pain is experienced.
- **After swallowing:** Seek medical attention if nauseous or dizziness occurs.
- **Information for doctor:** Submit this MSDS to the doctor.

### 5. Fire fighting measures

- **Suitable extinguishing agents:** This material is non-combustible. Use extinguishing media appropriate to surround fire conditions.
- **Protective equipment:** Use appropriate fire protective equipment as needed.

### 6. Accidental release measures

- **Person-related safety precautions:** Use plastic gloves when handling material.
- **Measures for environmental protection:** Not applicable
- **Measures for cleaning/collecting:** Dry spills should be wiped up with a damp sponge. Wet spill should be wiped up with a towel. Avoid skin contact. Dispose of material in accordance with all local, state and federal regulations.
- **Additional information:** Not applicable.

### 7. Handling and storage



Document Title:  
per ISO/DIS 11014

Lipopolysaccharide, Endotoxin, Control Standard Endotoxin (CSE),  
Pyrogen

- **Handling:** Use good manufacturing and laboratory procedures when handling any chemical.
- **Information for safe handling:** Avoid inhalation and skin contact.
- **Information about protection against explosions and fires:** Non-combustible material.
- **Storage:** Store freeze dried product between 2 to 8°C. Store reconstituted material at 2 to 8°C up to 24 hours.

### 8. Exposure controls and personal protection

- **General protective and hygienic measures:** Use of protective surgical gloves is optional.
- **Breathing equipment:** For dry powder spills of substantial quantities, a particulate exclusion mask should be worn. No mask is needed for liquid preparation.
- **Protection of hands:** Use of protective surgical gloves is optional. Wash hands thoroughly after handling.
- **Eye protection:** Safety goggles/glasses are optional.
- **Body protection:** Cover all open cuts before use. Do not inject liquid preparation.

### 9. Physical and chemical properties

- **General information:**
  - **Form:** Amorphous powder
  - **Color:** White
  - **Odor:** None
- **Change in condition:** N/A
- **Melting point/Melting range:** N/A
- **Boiling point/Boiling Range:** N/A
- **Flash Point:** N/A
- **Auto igniting:** N/A
- **Danger of explosion:** N/A
- **Density:** N/A
- **Solubility immiscibility with water:** N/A
- **Solvent contact:**
  - **Organic solvents:** N/A
- **Solids content:** N/A

### 10. Stability and reactivity

- **Thermal decomposition/conditions to be avoided:** This product is relatively heat stable.
- **Materials to be avoided:** None
- **Dangerous reactions:** Hazardous polymerization will not occur.
- **Dangerous products of decomposition:** N/A

### 11. Toxicological information

- **Acute:** Toxic upon entry to bloodstream
- **Primary irritant effect:** N/A
- **Additional toxicological information:** In case of inhalation, remove person to fresh air.

### 12. Ecological information

- **Ecotoxicological effects:** N/A

### 13. Disposal considerations

- **Product:** Dispose of product in trash receptacle.

### 14. Transport information

- **DOT regulations:**



ASSOCIATES OF  
**CAPE COD**  
INCORPORATED

Form

Document Number: MSD024

Page 3 of 3

Revision 000

Document Title:  
per ISO/DIS 11014

Lipopolysaccharide, Endotoxin, Control Standard Endotoxin (CSE),  
Pyrogen

- *Hazard class:* N/A
- *Land transport ADR/RID (cross border)*
  - *ADR/RID class:* N/A
- *Maritime transport IMDG::*
  - *IMDG class:* N/A
  - *Marine pollutant:* N/A
- *Air transport ICAO-TI and IATA-DGR:*
  - *ICAO/IATA Class:* N/A

#### **15. Regulations**

- *SARA Section 355 (extremely hazardous substances)*
- *SARA Section 313 (specific toxic chemical listings)*
- *TSCA (Toxic Substance Control Act)*

#### **16. Other information**

The above information is believed to be correct, but does not purport to be all inclusive and shall be used as a guide. Associates of Cape Cod, Inc. shall not be held liable for any damage resulting from handling or from contact with this product.