IncuCyte™ pHrodo® Green Zymosan Bioparticles® for Phagocytosis

IDENTIFICATION

Includes product identifier; manufacturer or distributor name, address, phone number; emergency phone number; recommended use; restrictions on use.

- **Product code:** Cat. No. 4618
- **Product name:** IncuCyte™ pHrodo® Green Zymosan Bioparticles® for Phagocytosis
- **Unit size:** 1 mg
- **Manufacturer/supplier:** Essen BioScience Inc.
  300 West Morgan Road
  Ann Arbor
  MI 48108
  USA
- **Emergency contact:** +1 (734) 769-1600
- **Fax contact:** +1 (734) 769-7295

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

HAZARD(S) IDENTIFICATION

Includes all hazards regarding the chemical; required label elements.

- **Signal word:** Not hazardous
- **Health hazard:** Not hazardous
- **Hazard pictogram:** None

**Principle routes of exposure/Potential health effects**

- **Eyes:** May cause eye irritation with susceptible persons.
- **Skin:** May cause skin irritation in susceptible persons.
- **Inhalation:** May be harmful by inhalation.
- **Ingestion:** May be harmful if swallowed.

**Specific effects**

- **Carcinogenic effects:** None
- **Mutagenic effects:** Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.
- **Reproductive toxicity:** None
- **Sensitization:** None
- **Target organ effects:** No known effects under normal use conditions.

COMPOSITION/INFORMATION ON INGREDIENTS

Includes information on chemical ingredients; trade secret claims.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No</th>
<th>EINECS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncuCyte™ pHrodo® Green Zymosan Bioparticles® for Phagocytosis</td>
<td>None</td>
<td>None</td>
<td>60-100</td>
</tr>
</tbody>
</table>

The product contains no substance which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.
FIRST-AID MEASURES

Includes important symptoms/effects, acute, delayed; required treatment.

Skin contact: Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Ingestion: Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician: Treat symptomatically.

FIRE-FIGHTING MEASURES

Lists suitable extinguishing techniques, equipment; chemical hazards from fire.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

ACCIDENTAL RELEASE MEASURES

Lists emergency procedures; protective equipment; proper methods of containment and cleanup.

Personal precautions: Use personal protective equipment.
Methods for cleaning up: Take up mechanically and collect in suitable container for disposal.
Environmental precautions: Prevent further leakage or spillage if safe to do so. See section 12 for additional information.

HANDLING AND STORAGE

Lists precautions for safe handling and storage, including incompatibilities.

Handling: Always wear recommended Personal Protective Equipment. No special handling advice required.
Storage: Keep in a dry, cool and well-ventilated place.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Lists OSHA's Permissible Exposure Limits (PELs); ACGIH Threshold Limit Values (TLVs); and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the SDS where available as well as appropriate engineering controls; personal protective equipment (PPE).

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>OSHA PEL</th>
<th>OSHA PEL(Ceiling)</th>
<th>ACGIH OEL(TWA)</th>
<th>ACGIH OEL( STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncuCyte™ pHrodo® Green Zymosan Bioparticles® for Phagocytosis</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering measures: Ensure adequate ventilation, especially in confined areas.
Personal protective equipment: Personal Protective Equipment requirements are dependent on the user institution’s risk assessment and are specific to the risk assessment for each laboratory where this material may be used.
Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection: Impervious gloves.
Eye protection: Safety glasses with side-shields.
Skin and body protection: Lightweight protective clothing.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.
PHYSICAL AND CHEMICAL PROPERTIES

Lists the chemical's characteristics.

General information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available.</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Melting point/range</td>
<td>No information available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

STABILITY AND REACTIVITY

Lists chemical stability and possibility of hazardous reactions.

Stability: Stable under normal conditions.

Materials to avoid: No dangerous reaction known under conditions of normal use.

TOXICOLOGICAL INFORMATION

Includes routes of exposure; related symptoms, acute and chronic effects; numerical measures of toxicity.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Acute toxicity</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LD50 (inhalation, rat, mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncuCyte™ pHrodo® Green Zymosan Bioparticles® for Phagocytosis</td>
<td>Not hazardous.</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Principle routes of exposure/potential health effects

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- **Skin:** May cause eye irritation with susceptible persons.
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- **Reproductive toxicity:** None.
- **Sensitization:** None.
- **Target organ effects:** No known effects under normal use conditions.

ECOLOGICAL INFORMATION

- **Ecotoxicity effects:** No information available.
- **Mobility:** No information available.
- **Biodegradation:** Inherently biodegradable.
- **Bioaccumulation:** Does not bioaccumulate.

Revision date: October 23, 2015
Product code: 4618
13 DISPOSAL CONSIDERATIONS
Dispose of in accordance with local regulations.

14 TRANSPORT INFORMATION
IATA.

Proper shipping name: Not classified as dangerous in the meaning of transport regulations.
Hazard class: None.
Subsidiary class: None.
Packing group: None.
UN-No: None.

15 REGULATORY INFORMATION

Component
IncuCyte™ pHrodo® Green Zymosan Bioparticles® for Phagocytosis
NONE (60-100)

US Federal Regulations
SARA 313: This product is not regulated by SARA.
Clean air act, section 112 hazardous air pollutants (HAPs) (see 40 CFR 61): This product does not contain HAPs.

US State Regulations

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts RTK</th>
<th>New Jersey RTK</th>
<th>Pennsylvania RTK</th>
<th>Illinois RTK</th>
<th>Rhode Island RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncuCyte™ pHrodo® Green Zymosan Bioparticles® for Phagocytosis</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

California Proposition 65: This product does not contain chemicals listed under Proposition 65.
WHMIS Hazard Class: Non-controlled.

16 OTHER INFORMATION
Includes the date of preparation or last revision.

Date of preparation: October 23, 2015
Revision date:

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

END OF SAFETY DATA SHEET