IncuCyte™ pHrodo® Red Zymosan Bioparticles® for Phagocytosis

1 IDENTIFICATION

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

Product code: Cat. No. 4617
Product name: IncuCyte™ pHrodo® Red 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.

2 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.

3 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® Red 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.
4 FIRST-AID MEASURES

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.

5 FIRE-FIGHTING MEASURES

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

6 ACCIDENTAL RELEASE MEASURES

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.

7 HANDLING AND STORAGE

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical name

<table>
<thead>
<tr>
<th>IncuCyte™ pHrodo® Red Zymosan Bioparticles® for Phagocytosis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical name</td>
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<tr>
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</tr>
</tbody>
</table>

Engineering measures: Ensure adequate ventilation, especially in confined areas.
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.

Revision date: October 23, 2015
Product code: 4617
9 PHYSICAL AND CHEMICAL PROPERTIES

Lists the chemical's characteristics.

**General information**

- **Form:** Solid.
- **Appearance:** No information available.
- **Odor:** No information available.
- **Boiling point:** No information available.
- **Melting point/range:** No information available.
- **Flash point:** No information available.
- **Autoignition temperature:** No information available.
- **Oxidizing properties:** No information available.
- **Water solubility:** No data available.

10 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.

11 TOXICOLOGICAL INFORMATION

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

- **Acute toxicity:** Not hazardous.

<table>
<thead>
<tr>
<th>Chemical name</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® Red Zymosan Bioparticles® for Phagocytosis</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**

- **Eyes:** May cause eye irritation with susceptible persons.
- **Skin:** May cause eye irritation with susceptible persons.
- **Inhalation:** May be harmful by inhalation.
- **Ingestion:** May be harmful by ingestion.
- **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.

12 ECOLOGICAL INFORMATION

- **Ecotoxicity effects:** No information available.
- **Mobility:** No information available.
- **Biodegradation:** Inherently biodegradable.
- **Bioaccumulation:** Does not bioaccumulate.
13 DISPOSAL CONSIDERATIONS
Dispose of in accordance with local regulations.

14 TRANSPORT INFORMATION
IATA.

<table>
<thead>
<tr>
<th>Proper shipping name:</th>
<th>Not classified as dangerous in the meaning of transport regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class:</td>
<td>None.</td>
</tr>
<tr>
<td>Subsidiary class:</td>
<td>None.</td>
</tr>
<tr>
<td>Packing group:</td>
<td>None.</td>
</tr>
<tr>
<td>UN-No:</td>
<td>None.</td>
</tr>
</tbody>
</table>

15 REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>IncuCyte™ pHRodo® Red Zymosan Bioparticles® for Phagocytosis NONE (60-100)</td>
<td>-</td>
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</tbody>
</table>

**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>
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<td>-</td>
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<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: October 23, 2015

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

END OF SAFETY DATA SHEET