1. Product and Company Information

Product name: Dihydroartemisinin
Product Number: RS-004

Company: SensaPharm Ltd
124i Bioscience Centre
Business & Innovation Centre
Wearfield
Sunderland
SR5 2TA
United Kingdom

Telephone: +44 (0) 191 516 6969
Emergency Phone: as above
E-mail address: info@sensapharm.eu

2. Hazards Identification

This substance is not classified as dangerous according to Directive 67/548/EEC.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS #</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dihydroartemisinin</td>
<td>71939-50-9</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Synonyms: DHA, Artenimol; β-Dihydroartemisinin; Alaxin; Coteckin; Cotexin; DHQHS 2; Dihydroartemisinine; Dihydroqinghaosu; (3R,5aS,6R,8aS,9R,10S,12R,12aR)-Decahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-\text{j}]1,2-benzodioxepin-10-ol;

4. First Aid Measures

**Inhalation**
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Skin Contact**
Wash off with soap and plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
### Eye Contact
Flush eyes with water as a precaution. Consult a physician.

### Ingestion
Do not induce vomiting. Rinse mouth with water. Never give anything to an unconscious person by mouth. Consult a physician.

### 5. Fire Fighting Measures

**Extinguishing Media**
Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Special protective equipment for emergency personnel**
Wear self contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

**Further information**
Use water spray to cool unopened containers.

### 6. Accidental Release Measures

**Personal Precautions**
Avoid dust formation. Evacuate area. Wear appropriate protective clothing to minimize contact with skin. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

**Methods for cleaning up**
Sweep up and shovel, then place in suitable container for appropriate disposal.

### 7. Handling and Storage

**Handling**
Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with eyes, skin or clothing. Avoid prolonged or repeated exposure.

**Storage**
Store in a cool, dry place. Store in a tightly closed container. Recommended storage temperature: -20°C

### 8. Exposure Controls/Personal Protection

**General Hygiene Measures**
Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

**Personal Protective Equipment**

**Respiratory protection**
Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Compatible chemical-resistant gloves.

**Eye protection**
Chemical safety goggles.

**Skin and body protection**
Wear appropriate protective gloves to prevent skin exposure.
## 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Crystalline</td>
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<td>Colour</td>
<td>White</td>
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<tr>
<td>Molecular Formula</td>
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<tr>
<td>pH</td>
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<tr>
<td>MP</td>
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<td>Flammability</td>
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<td>Vapour Pressure</td>
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<td>Surface Tension</td>
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<td>Conductivity</td>
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<td>Miscellaneous Data</td>
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</tr>
<tr>
<td>Solubility</td>
<td>n/a</td>
</tr>
</tbody>
</table>

## 10. Stability and Reactivity

**Storage stability**
- Stable under recommended storage conditions.

**Conditions to avoid**
- Incompatible materials.

**Materials to avoid**
- Strong oxidizing agents, acids, acetic anhydride, acid chlorides, carbon dioxide.

**Hazardous decomposition products**
- Carbon monoxide, Carbon dioxide

## 11. Toxicological Information

**Acute toxicity**
- No data available

**Irritation and corrosion**
- No data available
### Sensitisation
no data available

### Chronic exposure
no data available

**Signs and Symptoms of Exposure**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Potential Health Effects**
- **Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.
- **Skin** May be harmful if absorbed through skin. May cause skin irritation.
- **Eyes** May cause eye irritation.
- **Ingestion** May be harmful if swallowed.

### 12. Ecological Information
No data available

### 13. Disposal Considerations
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

### 14. Transport Information
Not dangerous goods. Not hazardous for road, sea or air transport.

### 15. Regulatory Information
Further information:
The product does not need to be labelled in accordance with EC directives or respective national laws.

### 16. Other Information

**Warranty**
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SensaPharm Ltd., shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sensapharm.eu for additional terms and conditions of sale. Copyright 2009 SensaPharm Ltd. License granted to make unlimited paper copies for internal use only.

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