1. PRODUCT AND COMPANY IDENTIFICATION

Product name
Luteinizing Hormone Releasing Hormone (LHRH)

Recommended use
For research use only

Supplier Address
Abcam Inc
1 Kendall Square, Ste 341
Cambridge, MA 02139-1517
USA
Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)
Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

E-mail address
technical@abcam.com

Emergency telephone
Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

2. HAZARDS IDENTIFICATION

GHS - Classification

Reproductive toxicity Category 1B

GHS Label elements, including precautionary statements

Signal Word
Danger

Hazard statements
H360 - May damage fertility or the unborn child

Precautionary Statements - EU (§28, 1272/2008)
P308 + P313 - IF exposed or concerned: Get medical advice/ attention
P281 - Use personal protective equipment as required
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P501 - Dispose of contents/ container to an approved waste disposal plant
P405 - Store locked up
Other information

Caution - substance not yet tested completely

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation

Move to fresh air.

Ingestion

Clean mouth with water. Drink plenty of water.

Notes to physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable properties

Not flammable.

Flash point

not determined

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Explosion Data

Sensitivity to Mechanical Impact

none.

Sensitivity to Static Discharge

none.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid contact with the skin and the eyes. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions
Try to prevent the material from entering drains or water courses.

Methods for containment
Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up
Use personal protective equipment. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically and collect in suitable container for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

Other information
Refer to protective measures listed in sections 7 and 8.

7. HANDLING AND STORAGE

Advice on safe handling
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Technical measures/Storage conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering measures
Showers
Eyewash stations
Ventilation systems

Personal protective equipment
Eye/face protection
Tightly fitting safety goggles.

Skin and body protection
No special protective equipment required.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures
When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
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<tr>
<td>Odor Threshold</td>
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<td>pH</td>
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<td>Flash point</td>
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<tr>
<td>Decomposition temperature</td>
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<td>Melting point/range</td>
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<tr>
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<td>Vapor density</td>
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<td>Odor</td>
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<td>Boiling point/boiling range</td>
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<tr>
<td>Flammability Limits in Air</td>
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</tbody>
</table>

10. STABILITY AND REACTIVITY

Stability                             | Stable under recommended storage conditions.  |
Incompatible products                | None known based on information supplied.    |
Conditions to avoid                   | None known based on information supplied.    |
Hazardous decomposition products      | Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NOx). |
Hazardous polymerization              | Hazardous polymerization does not occur.     |

11. TOXICOLOGICAL INFORMATION

Acute toxicity                        | Product does not present an acute toxicity hazard based on known or supplied information. |
Product Information                   | Product does not present an acute toxicity hazard based on known or supplied information. |

Chronic toxicity

Reproductive toxicity                 | Product is or contains a chemical which is a known or suspected reproductive hazard |
Developmental Toxicity                | Contains ingredients that have suspected developmental hazards Possible risk of harm to the unborn child May cause birth defects |
Target Organ Effects                  | None known.                                |

12. ECOLOGICAL INFORMATION

Ecotoxicity                           | The environmental impact of this product has not been fully investigated. |
### 13. DISPOSAL CONSIDERATIONS

| Waste disposal methods | This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements. |
| Contaminated packaging | Do not re-use empty containers. |

### 14. TRANSPORT INFORMATION

| DOT | Not dangerous goods |
| IATA | Not dangerous goods |
| ADR | Not dangerous goods |

### 15. REGULATORY INFORMATION

#### U.S. Federal Regulations

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**
- Acute Health Hazard: no
- Chronic Health Hazard: yes
- Fire Hazard: no
- Sudden Release of Pressure Hazard: no
- Reactive Hazard: no

**Clean Water Act**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### U.S. State Regulations

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

**International Regulations**

**WHMIS Note:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3
H360FD - May damage fertility. May damage the unborn child

Hazard statements
H360 - May damage fertility or the unborn child
Revision Date 13-Jul-2015
Revision Note No information available.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS