1 - Identification of substance and manufacturer

Product name: LY 333531 hydrochloride

IUPAC name: 13-((Dimethylamino)methyl)-10,11,14,15-tetrahydro-4,9:16,1-dimetheno-1H,13H-dibenzo(e,k)pyrrolo(3,4-h)(1,4,13)oxazadacyclohexadecene-1,3(2H)-dione hydrochloride

2 - Hazards identification

Route of entry: Inhalation, Skin, and Eye contact.

Symptoms of Exposure: May be harmful by inhalation, ingestion or eye and/or skin absorption. May cause irritation to eye, mucous membranes, upper respiratory system, and/or skin. The toxicological properties of this compound have not been fully tested. For research purposes only.

3 - Information on ingredients

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS number</th>
<th>Concentration</th>
<th>LD-50 of ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>LY 333531 hydrochloride</td>
<td>169939-93-9</td>
<td>99.3%</td>
<td>No data available</td>
</tr>
</tbody>
</table>

4 - First Aid Measures

Skin contact: Wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing.

Eye contact: Rinse with copious amounts of water for at least 15 minutes as a precaution.

Eye contact: Rinse mouth out with copious amounts of water, contact a physician.

5 - Fire Fighting Measures

Fire fighting instructions: Use extinguishing media appropriate to the surrounding fire conditions. Wear protective clothing to prevent contact with skin, eyes, and respiratory system.

6 - Accidental Release Measures

Leak and spill procedures: Wear appropriate protective clothing. Vacuum or sweep up dry material and dispose in an appropriate container as described under Disposal Conditions. Avoid raising dust. Absorb solutions with finely-powdered liquid-binding material. After removal, ventilate and decontaminate surfaces and equipment with alcohol. Dispose of contaminated materials according to local, state, and federal regulations.

7 - Handling and Storage

Handling procedures and equipment: Store in a properly sealed container under the storage conditions indicated on the label.

8 - Exposure Control / Personal Protection

Exposure limits: No data available.

Protection of hands/skin: Chemical resistant gloves and lab coat.

Protection of eyes: Appropriate safety glasses.


9 - Physical and chemical properties

<table>
<thead>
<tr>
<th>Batch molecular formula</th>
<th>Appearance</th>
<th>Chemical purity</th>
<th>Solubility in water (mg/mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C28H28N4O3.HCl.2H2O</td>
<td>Red solid</td>
<td>99.5%</td>
<td>0.0</td>
</tr>
<tr>
<td>Batch MW 541.04</td>
<td>Melting point 325 °C (decomp)</td>
<td>Optical purity (ee) N.A.</td>
<td></td>
</tr>
</tbody>
</table>

10 - Stability and reactivity

Stable under normal handling conditions.

Reactivity: May emit toxic gases like carbon monoxide (CO), carbon dioxide (CO2), hydrochloric acid (HCl), nitrogen oxide upon thermal decomposition.

Conditions and materials to avoid: Protect from light and heat. Avoid strong oxidizing agents.

11 - Toxicological information

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Carcinogenicity</th>
<th>Mutagenicity</th>
<th>Teratogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

12 - Ecological information

Treat as potentially toxic. Runoff from fire control or dilution with water may cause pollution.

13 - Disposal considerations

Treat as potentially toxic. Dispose in accordance with local, state, and federal regulations.

14 - Transport Information

<table>
<thead>
<tr>
<th>(US) DOT shipping name</th>
<th>IATA class</th>
<th>Applicable HS class</th>
<th>Transportation (Land/Sea/Air)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>2942.00.0000</td>
<td>Non-hazardous</td>
<td></td>
</tr>
</tbody>
</table>

15 - Regulatory information

Hazardous ingredient: LY 333531

European risk and safety phrases:

R48: Danger of serious damage to health by prolonged exposure.

S22: Do not breathe dust.

S24/S25: Avoid any inhalation, contact with skin and eyes.

S36/S37/S39: Wear suitable protective clothing, gloves and eye/face protection.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16 - Other information

The above information is believed to be accurate and represents the best information currently available to us, but does not purport to be complete. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists.

For research use only by trained personnel.

CAUTION: SUBSTANCE NOT FULLY TESTED