LKT Laboratories, Inc.

Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Olanzapine
Product ID: O4400
Chemical Name (Synonyms): 2-methyl-4-(4-methyl-1-piperazinyl)-10H-thieno[2,3-b][1,5]benzodiazepine
Supplier: LKT Laboratories, Inc
545 Phalen Blvd.
St. Paul, MN 55130 USA
Ph: 651-644-8424 Fax: 651-644-8357
www.lktlabs.com - getinfo@lktlabs.com
Emergency Phone #: 1-800-424-9300

Section 2. Hazards Identification

GHS Classification:
- Skin irritation (Category 2)
- Eye irritation (Category 2A)
- Chronic aquatic toxicity (Category 4)

GHS Label elements including precautionary statements

Pictogram: !
Signal word: Warning
Hazard statements:
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation.
- H413 - May cause long lasting harmful effects to aquatic life.
Precautionary statement:
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification:
- Health Hazard: 2
- Flammability: 0
- Physical Hazards: 0

NFPA Rating:
- Health Hazard: 2
- Fire: 0
- Reactivity Hazard: 0

Potential Health Effects:
- Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Eyes: Causes eye irritation.
**Section 3. Composition/Information on Ingredients**

<table>
<thead>
<tr>
<th>Substances</th>
<th>Formula Wt.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula Wt.</td>
<td>312.43</td>
<td>132539-06-1</td>
</tr>
<tr>
<td>S H C S</td>
<td>C_{17}H_{20}N_{4}S</td>
<td>EC No.</td>
</tr>
</tbody>
</table>

**Section 4. First Aid Measures**

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Eye Contact**
Flush eyes with water as a precaution.

**Skin Contact**
Wash off with soap and plenty of water. Consult a physician.

**Inhalation**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Section 5. Firefighting Measures**

**Flash Point**
Not available.

**Extinguishing Media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Firefighting Procedures**
Wear self-contained breathing apparatus and protective clothing.

**Unusual Fire Hazards**
Not known.

**Section 6. Accidental Release Measures**

**Personal Precautions**
Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental Precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleanup**
Use appropriate tools to collect material and dispose of in waste container. Avoid raising dust. Ventilate the area and wash spill site after material has been removed.

**Section 7. Handling and Storage**

**Handling**
Wear gloves, goggles, and lab coat when handling this material. Use in a well ventilated area. Use only in a chemical fume hood. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling material.

**Storage Conditions**
Keep container tightly closed in a dry and well-ventilated place.

**Hazardous Decomposition Products**
Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides, sulfur oxides.

**Other Remarks**
None.

Ingestion: May be harmful if swallowed.
Section 8. Exposure Controls/Personal Protection

Personal protective equipment Contains no substances with occupational exposure limit values.

Respiratory Protection
For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin and Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Color</th>
<th>Yellow</th>
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</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>Volatility</td>
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</tr>
<tr>
<td>Melting Point</td>
<td>Density</td>
<td>Not available.</td>
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<tr>
<td>Solubility</td>
<td>pH</td>
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<td>Flash Point</td>
<td>Ignition temperature</td>
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<tr>
<td>Lower explosion limit</td>
<td>Autoignition temperature</td>
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<td>Upper explosion limit</td>
<td>Vapor pressure</td>
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<tr>
<td>Water solubility</td>
<td>Odor</td>
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<td>Partition coefficient:</td>
<td>log Pow: 4.094</td>
<td>Odor Threshold</td>
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<tr>
<td>n-octanol/water</td>
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<tr>
<td>Relative vapor density</td>
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<td>Evaporation rate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

Stability
Stable under recommended storage conditions

Materials To Avoid
Keep away from heat and strong oxidizing agents.

Hazardous Decomposition Products
Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides, sulphur oxide
Section 11. Toxicological Information

**Oral LD50** Not available.

**Inhalation LC50** Not available.

**Dermal LD50** Not available.

**Other information on acute toxicity** Not available.

**Skin corrosion/irritation** Not available.

**Serious eye damage/irritation** Not available.

**Respiratory or skin sensitization** Not available.

**Germ cell mutagenicity** Not available.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive Toxicity** Not available.

**Aspiration Hazard** Not available.

**Specific organ toxicity single exposure (GHS)** Not available.

**Synergistic effects** Not available.

**Specific organ toxicity repeated exposure (GHS)** Not available.

**Additional Information** RTECS: Not available

**Teratogenicity** Not available.

**Signs and symptoms of exposure** Not available.

**Potential Health Effects**

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

**Section 12. Ecological Information**

**Toxicity** Not available.

**Mobility in soil** Not available.

**PBT and vPvB assessment** Not available.
Persistence and degradability  Not available.
Bioaccumulative potential  Not available.

Other adverse effects  An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. Disposal Considerations
Dispose of material according to all federal, state and local regulations.

Section 14. Transport Information

DOT (US)  Not Dangerous Goods
IATA  Not Dangerous Goods
IMDG  Not Dangerous Goods

Further Information  Not available.

Section 15. Regulatory Information

SARA 302 Components  SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title II, Section 302.

SARA 313 Components  SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components  Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components  No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components  Olanzapine  CAS: 132539-06-1

New Jersey Right To Know Components  Olanzapine  CAS: 132539-06-1

California Prop 65 Components  This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Section 16. Other Information

Other information  The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.
For emergencies in the USA, call CHEMTREC 800-424-9300