# Safety Data Sheet

## Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>Piperlonguminine</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product ID</strong></td>
<td>P3563</td>
</tr>
<tr>
<td><strong>Chemical Name</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Supplier</strong></td>
<td>LKT Laboratories, Inc 545 Phalen Blvd. St. Paul, MN 55130 USA Ph: 651-644-8424 Fax: 651-644-8357 <a href="http://www.lktlabs.com">www.lktlabs.com</a> - <a href="mailto:getinfo@lktlabs.com">getinfo@lktlabs.com</a></td>
</tr>
<tr>
<td><strong>Emergency Phone #</strong></td>
<td>1-800-424-9300</td>
</tr>
</tbody>
</table>

## Section 2. Hazards Identification

**GHS Classification**

Not a dangerous substance according to GHS

### GHS Label elements including precautionary statements

<table>
<thead>
<tr>
<th>Pictogram</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal word</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Hazard and precautionary statements</strong></td>
<td>None</td>
</tr>
</tbody>
</table>

### HMIS Classification

Health hazard: 0  
Flammability: 0  
Physical hazards: 0

### NFPA Rating

Health Hazard: 0  
Fire: 0  
Reactivity Hazard: 0

### 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.

Section 3. Composition/Information on Ingredients

Substances

<table>
<thead>
<tr>
<th>Formula</th>
<th>Formula Wt.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C16H19NO3</td>
<td>273.33</td>
<td>5950-12-9</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
Remove contact lenses. Flush with water for at least 15 minutes and seek medical attention immediately.

Skin Contact
Wash with soap and water for 15 minutes and seek medical attention immediately. Wash contaminated clothing before use.

Inhalation
Remove from exposure and provide respiration support if necessary.

Ingestion
Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personal.

Section 5. Firefighting Measures

Flash Point
Not available.

Extinguishing Media
Water spray, dry chemical powder, carbon dioxide, polymer foam.

Firefighting Procedures
Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards
May emit toxic fumes under fire conditions.

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.

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. Wash thoroughly after handling material.

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

Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide, Nitrogen oxides.

Other Remarks
None
Section 8. Exposure Controls/Personal Protection

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

**Respiratory Protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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>Volatility</th>
<th>Density</th>
<th>pH</th>
<th>Ignition temperature</th>
<th>Autoignition temperature</th>
<th>Water solubility</th>
<th>Partition coefficient: n-octanol/water</th>
<th>Relative vapor density</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
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<td>Flash Point</td>
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</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**
Carbon monoxide, Carbon dioxide, Nitrogen oxides.
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.
- **Teratogenicity**: Not available.
- **Specific organ toxicity single exposure (GHS)**: Not available.
- **Specific organ toxicity repeated exposure (GHS)**: Not available.
- **Aspiration Hazard**: Not available.
- **Synergistic effects**: Not available.
- **Additional Information**: RTECS #: RZ2463300
- **Signs and symptoms of exposure**: Not available.
- **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.

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  Not available.

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Section 13. Disposal Considerations
Dispose of material according to all federal, state, and local regulations.
Waste Disposal
Offer material to a licensed, professional waste disposal company to dispose of as unused product.

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Section 14. Transport Information

DOT (US)  Not dangerous goods
IATA  Not dangerous goods
IMDG  Not dangerous goods

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Section 15. Regulatory Information

Reach No.

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  No SARA Hazards

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

Pennsylvania Right To Know Components  Piperlonguminine  CAS #: 5950-12-9  Revision Date:

New Jersey Right To Know Components  Piperlonguminine  CAS #: 5950-12-9  Revision Date:

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

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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.