Section 1. Product and Company Identification

**Product Name:** Oltipraz  
**Product ID:** O4578  
**Chemical Name (Synonyms):** BRN 0978110  
**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), H315  
Eye irritation (Category 2A), H319  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

See section 16 for the full text of the H-Statements mentioned.

**GHS Label elements including precautionary statements**

- **Pictogram:**  
- **Signal word:** Warning  
- **Hazard and precautionary statements**
  - **Hazard statements**
    - H315 - Causes skin irritation.  
    - H319 - Causes serious eye irritation.  
    - H335 - May cause respiratory irritation.  
  - **Precautionary statements**
    - P261 - Avoid breathing dust / fume / gas / mist / vapors / spray.  
    - P264 - Wash skin thoroughly after handling.  
    - P271 - Use only outdoors or in a well-ventilated area.  
    - P280 - Wear protective gloves / eye protection / face protection.  
    - P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.  
    - P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
    - P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
    - P312 - Call a POISON CENTER or doctor / physician if you feel unwell.  
    - P321 - Specific treatment (see supplemental first aid instruction on this label).  
    - P332 + P313 - If skin irritation occurs: Get medical advice / attention.  
    - P362 - Take off contaminated clothing and wash before reuse.  
    - P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
    - P405 - Store locked up.  
    - P501 - Dispose of contents / container to an approved waste disposal plant.
  - **Hazards not otherwise classified (HNOC) or not covered by GHS** - none.

**HMIS Classification**  
Health hazard: 2  
Chronic Health Hazard: *  
Flammability: 0  
Physical Hazard: 0

**NFPA Rating**  
Health hazard: 2  
Fire hazard: 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. Causes skin irritation.  
Eyes: Causes serious eye irritation.
Ingestion: May be harmful if swallowed.

Section 3. Composition/Information on Ingredients

Substances

<table>
<thead>
<tr>
<th>Formula</th>
<th>C$_8$H$_6$N$_2$S$_3$</th>
<th>Formula Wt.</th>
<th>226.34</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>64224-21-1</td>
<td>EC No.</td>
<td></td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact
Flush with water for at least 15 minutes and remove contact lenses. Continue to flush eyes with water. 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 person from exposure into fresh. If not breathing, give artificial respiration. Seek medical attention.

Ingestion
Rinse mouth with water. Contact a physician or poison control immediately.

Section 5. Firefighting Measures

Flash Point
Not Available

Extinguishing Media
Dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.

Firefighting Procedures
Wear self-contained breathing apparatus for fire fighting and protective clothing.

Unusual Fire Hazards
Emits carbon oxides, nitrogen oxides (NOx), and sulphur 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
Do not let product enter drains.

Methods and materials for containment and cleanup
Use appropriate tools to collect material without creating dust and dispose in suitable, closed waste container. 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. Avoid formation of dust and aerosols. Use in a well ventilated area. Use only in a chemical fume hood. Wash thoroughly after handling material.

Storage Conditions
Store in a cool, well-ventilated, dry place in a tightly closed container. Recommended storage temperature: 2 - 8˚C. This product is light sensitive.

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.

Other Remarks
None
Section 8. Exposure Controls/Personal Protection

Personal protective equipment Components with workplace control parameters: Contains no substances with occupational exposure limit values.

EXPOSURE CONTROLS
Engineering controls: Handle according to good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

PERSONAL PROTECTIVE EQUIPMENT
Eye and face protection: Safety glasses with side-shields.
Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper removal technique without touching glove’s outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the workplace.

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).

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Bright Red</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not Available</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>Not Available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Not Available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not Available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

Stability
Not Available

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

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.
Section 11. Toxicological Information

**Oral LD50** 5,000 mg/kg

**Inhalation LC50** Not Available

**Dermal LD50** Not Available

**Other information on acute toxicity** Not Available

**Reproductive Toxicity** Not Available

**Specific organ toxicity single exposure (GHS)** Inhalation may cause respiratory irritation.

**Specific organ toxicity repeated exposure (GHS)** Not Available

**Germ cell mutagenicity** Not Available

**Reproductive Toxicity** Not Available

**Aspiration Hazard** Not Available

**Synergistic effects**

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

**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.

Section 12. Ecological Information

**Toxicity** Not Available

**Mobility in soil** Not Available

**PBT and vPvB** PBT/vPvB assessment not available as chemical safety assessment not required/not
Waste Disposal

Dispose of material as unused product according to all federal, state and local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

Section 13. Disposal Considerations

Bioaccumulative potential Not Available

Persistence and degradability Not Available

Other adverse effects Not Available

Section 14. Transport Information

DOT (US) Not dangerous goods.

IATA Not dangerous goods.

IMDG Not dangerous goods.

Section 15. Regulatory Information

Reach No.

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

SARA 313 Components 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 Oltipraz CAS #: 64224-21-1 Revision Date:

New Jersey Right To Know Components Oltipraz CAS #: 64224-21-1 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.

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.