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**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

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**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.  
P337 + P313 - If eye irritation persists: 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.

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### Section 3. Composition/Information on Ingredients

#### Substances

**Formula** C<sub>8</sub>H<sub>6</sub>N<sub>2</sub>S<sub>3</sub>  
**CAS No.** 64224-21-1

**Formula Wt.** 226.34  
**EC No.**

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### Section 4. First Aid Measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Flush with water for at least 15 minutes and remove contact lenses. Continue to flush eyes with water. Seek medical attention immediately.
<b>Skin Contact</b>	Wash with soap and water for 15 minutes and seek medical attention immediately. Wash contaminated clothing before use.
<b>Inhalation</b>	Remove person from exposure into fresh. If not breathing, give artificial respiration. Seek medical attention.
<b>Ingestion</b>	Rinse mouth with water. Contact a physician or poison control immediately.

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### Section 5 . Firefighting Measures

<b>Flash Point</b>	Not Available
<b>Extinguishing Media</b>	Dry chemical, carbon dioxide, alcohol-resistant foam, or water spray.
<b>Firefighting Procedures</b>	Wear self-contained breathing apparatus for fire fighting and protective clothing.
<b>Unusual Fire Hazards</b>	Emits carbon oxides, nitrogen oxides (NOx), and sulphur under fire conditions.

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### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
<b>Environmental Precautions</b>	Do not let product enter drains.
<b>Methods and materials for containment and cleanup</b>	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.

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### Section 7. Handling and Storage

<b>Handling</b>	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.
<b>Storage Conditions</b>	Store in a cool, well-ventilated, dry place in a tightly closed container. Recommended storage temperature: 2 - 8°C. This product is light sensitive.
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.
<b>Other Remarks</b>	None

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## 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).

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## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Solid	<b>Color</b>	Bright Red
<b>Boiling Point</b>	N/A	<b>Volatility</b>	Not Available
<b>Melting Point</b>	165°C-166°C	<b>Density</b>	Not Available
<b>Solubility</b>	Soluble in methanol.	<b>pH</b>	Not Available
<b>Flash Point</b>	Not Available	<b>Ignition temperature</b>	Not Available
<b>Lower explosion limit</b>	Not Available	<b>Autoignition temperature</b>	Not Available
<b>Upper explosion limit</b>	Not Available	<b>Vapor pressure</b>	Not Available
<b>Water solubility</b>	Not Available	<b>Odor</b>	Not Available
<b>Partition coefficient: n-octanol/water</b>	Not Available	<b>Odor Threshold</b>	Not Available
<b>Relative vapor density</b>	Not Available	<b>Evaporation rate</b>	Not Available

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## Section 10. Stability and Reactivity

<b>Stability</b>	Not Available
<b>Materials To Avoid</b>	Keep away from heat and strong oxidizing agents.

<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides.
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**Possibility of hazardous reactions** Not Available

**Conditions to avoid** Not Available

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## Section 11. Toxicological Information

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

**Skin corrosion/irritation** Not Available

**Inhalation LC50** Not Available

**Serious eye damage/irritation** Not Available

**Dermal LD50** Not Available

**Respiratory or skin sensitization** Not Available

**Other information on acute toxicity** Not Available

**Germ cell mutagenicity** Not Available

**Reproductive Toxicity** Not Available

**Aspiration Hazard** Not Available

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

**Synergistic effects**

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

**Additional Information** RTECS: JP1293000

**Teratogenicity**

**Signs and symptoms of exposure**

**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.

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## Section 12. Ecological Information

**Toxicity** Not Available

**Mobility in soil** Not Available

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

conducted.

**Persistence and degradability** Not Available

**Other adverse effects** Not Available

**Bioaccumulative potential** Not Available

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### Section 13. Disposal Considerations

**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.

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### Section 14. Transport Information

**DOT (US)** Not dangerous goods.

**IATA** Not dangerous goods.

**IMDG** Not dangerous goods.

#### Further Information

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### 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.

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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.

**Updated** 4/19/2019

For emergencies in the USA, call  
CHEMTREC 800-424-9300