



## OXFORD BIOMEDICAL RESEARCH

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### MATERIAL SAFETY DATA SHEET

#### Section 1 - Product and Company Information

Product Name: Ketoconazole

Product Number: X32

Company: Oxford Biomedical Research  
2165 Avon Industrial Dr.  
Rochester Hills, MI 48309  
Phone: 248 852-8815  
Fax: 248 852-4466

CAS # 65277-421

Chemical Class: Imidazole

Formula: C<sub>26</sub>H<sub>28</sub>N<sub>4</sub>O<sub>4</sub>Cl<sub>2</sub>

#### Section 3 - Hazards Identification

**ACUTE HEALTH EFFECTS:** This product may be harmful if ingested, inhaled or absorbed through the skin. Symptoms of overexposure may include, nausea, vomiting, headache, dizziness, rash, itching, or drowsiness.

**CHRONIC HEALTH EFFECTS:** May cause liver damage. Possible teratogen.

#### Section 4 - First Aid Measures

**INGESTION:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

**INHALATION EXPOSURE:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**DERMAL EXPOSURE:** In case of contact, immediately wash skin with soap and copious amounts of water.

**EYE EXPOSURE:** In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

#### Section 5 - Fire Fighting Measures

**FLASH POINT:** N/A

**AUTOIGNITION TEMP:** N/A

**FLAMMABILITY:** N/A

**EXTINGUISHING MEDIA:** Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**FIREFIGHTING: Protective Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. **Specific Hazard(s):** Emits toxic fumes under fire conditions.

EXPOSURE HAZARD(S): May emit toxic gases upon thermal decomposition  
COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

### **Section 6 - Accidental Release Measures**

ENGINEERING CONTROLS: Safety shower and eye bath. Mechanical exhaust required.

#### PERSONAL PROTECTIVE EQUIPMENT

-Respiratory: Government approved respirator.

-Hand: Compatible chemical-resistant gloves.

-Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES: Wash contaminated clothing before reuse. Wash thoroughly after handling.

### **Section 7 - Handling and Storage**

HANDLING: User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE: Keep tightly closed. Store at room temperature.

PROCEDURE(S) OF PERSONAL PRECAUTION(S): Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### **Section 9 - Physical/Chemical Properties**

APPEARANCE: off-white solid

MOLECULAR WEIGHT: 213.19 AMU

PH: N/A

BP/BP Range: N/A

MP/MP Range: 300 °C

FREEZING POINT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: N/A

SG/DENSITY: N/A

### **Section 10 - Stability and Reactivity**

STABILITY: Stable.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITIES: N/A

### **Section 11 - Toxicological Information**

RTECS#:

ORAL LD50 (mg/kg): rat- 166; mouse- 618; dog- 178; guinea pig-178

I.V. LD50 (mg/kg): rat- 86; mouse- 41.5; dog- 23.3; guinea pig-23.3

### **Section 12 - Ecological Information**

No data available.