

# Safety Data Sheet

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Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** Ketoconazole

**UN/ID No** 2811

**Recommended use** For research use only

**Supplier Address** Abcam Inc  
1 Kendall Square, Ste 341  
Cambridge, MA 02139-1517  
USA  
Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free)  
Fax: (866) 739-9884 or (866) 457-9616 (both US toll free)

**E-mail address** technical@abcam.com

**Emergency telephone** Tel: (617)225-2272 or 888-77-ABCAM (22226) (US toll free) - Monday-Friday 8am-9pm EST

## 2. HAZARDS IDENTIFICATION

### GHS - Classification

|   |             |
|---|-------------|
| Acute oral toxicity   | Category 3  |
| Reproductive toxicity                                       | Category 1B |
| Specific target organ systemic toxicity (repeated exposure) | Category 1  |
| Acute aquatic toxicity                                      | Category 1  |
| Chronic aquatic toxicity                                    | Category 1  |

### GHS Label elements, including precautionary statements



**Signal Word**  
Danger

**Hazard statements**

H301 - Toxic if swallowed  
 H360 - May damage fertility or the unborn child  
 H372 - Causes damage to organs through prolonged or repeated exposure  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician  
 P308 + P313 - IF exposed or concerned: Get medical advice/ attention  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P281 - Use personal protective equipment as required  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P201 - Obtain special instructions before use  
 P202 - Do not handle until all safety precautions have been read and understood  
 P330 - Rinse mouth  
 P273 - Avoid release to the environment  
 P391 - Collect spillage  
 P501 - Dispose of contents/ container to an approved waste disposal plant  
 P405 - Store locked up

**Other information**

Caution - substance not yet tested completely

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

| Chemical Name | CAS-No     | Weight % | Classification (Reg. 1272/2008)   |
|---------------|------------|----------|---|
| Ketoconazole  | 65277-42-1 | 60-100   | Acute Tox. 3 (H301)<br>Repr. 1B (H360F)<br>STOT RE 1 (H372)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |

**For the full text of the H-Statements mentioned in this Section, see Section 16**

#### 4. FIRST AID MEASURES

|                           |  |
|---------------------------|--|
| <b>General advice</b>     | When symptoms persist or in all cases of doubt seek medical advice.  |
| <b>Eye contact</b>        | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. |
| <b>Skin contact</b>       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                    |
| <b>Inhalation</b>         | Move to fresh air.   |
| <b>Ingestion</b>          | Rinse mouth. Do not induce vomiting without medical advice. If symptoms persist, call a physician.                                       |
| <b>Notes to physician</b> | Treat symptomatically.   |

#### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flammable properties</b>                                  | Not flammable.   |
| <b>Flash point</b>   | not determined   |
| <b>Suitable extinguishing media</b>                          | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                |
| <b>Explosion Data</b>  |  |
| <b>Sensitivity to Mechanical Impact</b>                      | none.  |
| <b>Sensitivity to Static Discharge</b>                       | none.  |
| <b>Protective equipment and precautions for firefighters</b> | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Use personal protective equipment. Avoid contact with the skin and the eyes. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses.  |
| <b>Methods for containment</b>   | Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.                                     |
| <b>Methods for cleaning up</b>   | Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.   |
| <b>Other information</b>         | Refer to protective measures listed in sections 7 and 8.  |

#### 7. HANDLING AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Advice on safe handling</b> | Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. |
|--------------------------------|--|

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering measures** Showers  
Eyewash stations  
Ventilation systems

**Personal protective equipment**

**Eye/face protection** Tightly fitting safety goggles.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                          |                                    |                             |
|----------------------------------|--------------------------|------------------------------------|-----------------------------|
| <b>Appearance</b>                | Off-white.               | <b>Odor</b>                        | No information available.   |
| <b>Odor Threshold</b>            | No information available | <b>Physical State @20°C</b>        | Solid                       |
| <b>pH</b>                        | No information available | <b>Autoignition temperature</b>    | No information available    |
| <b>Flash point</b>               | No information available | <b>Boiling point/boiling range</b> | No information available    |
| <b>Decomposition temperature</b> | No information available | <b>Flammability Limits in Air</b>  | No information available    |
| <b>Melting point/range</b>       | No information available |                                    |                             |
| <b>Explosion limits</b>          | No information available | <b>solubility</b>                  | Ethanol, Dimethylsulfoxide. |
| <b>Specific Gravity</b>          | no data available        | <b>Vapor density</b>               | no data available           |
| <b>Evaporation rate</b>          | No information available |                                    |                             |
| <b>VOC Content(%)</b>            | not applicable           |                                    |                             |

## 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended storage conditions.

**Incompatible products** None known based on information supplied.

**Conditions to avoid** None known based on information supplied.

**Hazardous decomposition products** Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen chloride.

**Hazardous polymerization** Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

|                            |                                |
|----------------------------|--------------------------------|
| <b>Product Information</b> | Product is toxic by ingestion. |
| <b>Ingestion</b>           | Toxic if swallowed             |

### Chronic toxicity

|                              |   |
|------------------------------|---|
| <b>Reproductive toxicity</b> | Product is or contains a chemical which is a known or suspected reproductive hazard |
| <b>Target Organ Effects</b>  | None known.   |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

|                               |  |
|-------------------------------|--|
| <b>Waste disposal methods</b> | Dispose of in accordance with local regulations. |
| <b>Contaminated packaging</b> | Do not re-use empty containers.                  |

## 14. TRANSPORT INFORMATION

|                             |   |
|-----------------------------|---|
| <b>DOT</b>                  | Excepted Quantity                           |
| <b>Proper shipping name</b> | Toxic solid, organic, n.o.s. (Ketoconazole) |
| <b>Hazard class</b>         | 6.1   |
| <b>UN/ID No</b>             | 2811  |
| <b>Packing group</b>        | III   |

|                             |   |
|-----------------------------|---|
| <b>IATA</b>                 | Excepted Quantity                           |
| <b>UN/ID No</b>             | 2811  |
| <b>Proper shipping name</b> | Toxic solid, organic, n.o.s. (Ketoconazole) |
| <b>Hazard class</b>         | 6.1   |
| <b>Packing group</b>        | III   |

|                             |   |
|-----------------------------|---|
| <b>ADR</b>                  | Excepted Quantity                           |
| <b>Proper shipping name</b> | Toxic solid, organic, n.o.s. (Ketoconazole) |
| <b>Hazard class</b>         | 6.1   |
| <b>UN/ID No</b>             | 2811  |
| <b>Packing group</b>        | III   |

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazard Categories**

|  |     |
|--|-----|
| <b>Acute Health Hazard</b>               | yes |
| <b>Chronic Health Hazard</b>             | yes |
| <b>Fire Hazard</b>                       | no  |
| <b>Sudden Release of Pressure Hazard</b> | no  |
| <b>Reactive Hazard</b>                   | no  |

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations****International Regulations****WHMIS Note:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**16. OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H301 - Toxic if swallowed H360F - May damage fertility H372 - Causes damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects

**Hazard statements**

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**Revision Date** 13-Jul-2015

**Revision Note** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of MSDS**