

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Ketoconazole

Product ID K1676

Chemical Name

Fungarest; Fungoral; Ketoderm.

(Synonyms)

LKT Laboratories, Inc.

545 Phalen Blvd. **Supplier**

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

Acute toxicity, Oral (Category 3), H301 Reproductive toxicity (Category 1B), H360

Specific target organ toxicity - repeated exposure (Category 2), H373

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

GHS Label elements including precautionary statements

Pictogram







Signal word

Danger

Hazard and precautionary statements

Hazard statements

H301 - Toxic if swallowed.

H360 - May damage fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust.

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P281 - Use personal protective equipment as required.
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P308 + P313: IF exposed or concerned: Get medical advice. P314 - Get medical advice if you feel unwell.

P330 - Rinse mouth.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard: 2 Chronic health hazard: * Flammability: 0 Physical hazard 0

NFPA Rating

Health hazard: 2 Flammability: 0 Reactivity hazard 0

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. May cause damage to organs through prolonged or

repeated exposure. Skin: May be harmful in contact with skin.

Eyes: May cause eye irritation.

Section 3.	Compo	sition/Info	rmation o	on Ingredien	ts

Substances

Formula C₂₆H₂₈Cl₂N₄O₄ Formula Wt. 531.44

CAS No. 65277-42-1 EC No. 265-667-4

Section 4. First Aid Measues

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash with soap and plenty of water for 15 minutes and seek medical attention immediately. Wash contaminated clothing before use. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 . Firefighting Measures

Flash Point

Not available.

Extingushing Media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

Unusual Fire Hazards

Carbon oxides, nitrogen oxides (NOx), hydrogen chloride gas.

Section 6. Accidental Release Measures

Personal Precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleanup

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

ns Recommended storage temperature: Ambient

Hazardous Decomposition Products Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

None

Other Remarks

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

PERSONAL PROTECTION

Eye/Face 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 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. Full and splash contact - Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min., Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M).

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. Respiratory Protection - Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

Section 9. Physical and Chemical Properties

Solid. White powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility Not available. 148°C-149°C **Melting Point** Density Soluble in DMSO (3 mg/mL), ethanol (7 Not available. Solubility mg/mL). pН Not available. Not available. Ignition Flash Point temperature Not available. Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Not available. Not available. Water solubility Odor Partition coefficient: log Pow: 3.507 Not available. Odor n-octanol/water **Threshold**

Section 10. Stability and Reactivity

Not available.

Evaporation

Stability

Relative vapor density Not available.

Stable under recommended storage conditions.

Strong oxidizing agents.

Materials To Avoid

Hazardous Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas.

Decomposition Products

Possibility of Not available. hazardous reactions

Not available.

Conditions to avoid

Section 11. Toxicological Information

Oral LD50 Rat - 166 mg/kg Skin Not available.

corrosion/irritation

Inhalation LC50 Not available. Serious eye Not available.

damage/irritation

Dermal LD50 Not available. Respiratory or Not available.

skin sensitization

Other information on Not available. Germ cell mutagenicity Human acute toxicity

lymphocyte DNA inhibition

Reproductive Toxicity Not available. Presumed human reproductive Aspiration Hazard Not available. toxicant.

Synergistic effects Not available.

Specific organ toxicity Not available. single exposure (GHS)

Specific organ toxicity May cause damage to organs through Additional Information RTECS: TK7912300 repeated exposure (GHS) prolonged or repeated exposure.

Signs and symptoms Liver, irregularities, based on human evidence Teratogenicity Not available. of exposure

Potential Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. May cause damage to organs through prolonged or repeated Health Effects exposure.

Skin: May be harmful in contact with skin.

Skin: May be remained in Contact Will skin: Eyes: May cause eye irritation. Ingestion: Acute toxicity. Toxic if swallowed. Reproductive toxicity: May damage fertility or the unborn child.

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.

conducted.

Persistence and degradability Not available.

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling/ disposal. Very toxic to aquatic life with long lasting effects.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal

Dispose of material according to all federal, state, and local regulations. Offer material to a licensed professional disposal company to dispose of as unused product. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Section 14. Transport Information

DOT (US) UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (Ketoconazole)

Marine pollutant: No Poison inhalation hazard: No

IATA UN number: 2811 Class: 6.1 Packing group: III

Proper shipping name: Toxic solid, organic, n.o.s. (Ketoconazole)

Marine pollutant: No

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Ketoconazole) UN number: 2811

Marine pollutant: No

Further Information

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 Acute Health Hazard, Chronic Health Hazard

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

Pennsylvania Right Ketoconazole CAS #: 65277-42-1 Revision Date: 2009-07-17 **To Know Components**

New Jersey Right Ketoconazole CAS #: 65277-42-1 Revision Date: 2009-07-17

To Know Components

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

Updated 8/21/2019

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