

**Section 1. Product and Company Identification****Product Name** Aflatoxin B1**Product ID** A2044**Chemical Name (Synonyms)** (6aR-*cis*)-2,3,6a,9a-Tetrahydro-4-methoxycyclopenta- [c]furo[3',2':4,5]furo[2,3-*h*][1]-benzopyran-1,11-dione**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** Acute Toxicity, Oral (Category 1), H300
Acute Toxicity, Skin (Category 1), H310
Acute Toxicity, Inhalation (Category 2), H330
Carcinogenicity (Category 1B), H350**GHS Label elements including precautionary statements****Pictogram****Signal word** Danger**Hazard and precautionary statements****Hazard statements**H300 + H310 + H330 - Fatal if swallowed, in contact with skin, or if inhaled.
H350 - May cause cancer.**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, fumes, gas, mist, vapors, spray.
P262 - Do not get in eyes, on skin, or on clothing
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P281 - Use personal protective equipment as required.
P284 - Wear respiratory protection.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P350 - IF ON SKIN: Gently 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.
P310 - Immediately call a POISON CENTER or doctor/ physician.
P320 - Specific treatment is urgent (see supplemental first aid instructions on this label).
P330 - Rinse mouth.
P361 - Remove/Take off immediately all contaminated clothing.
P363 - Wash contaminated clothing 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.**HMIS Classification**Health Hazard: 3
Chronic Health Hazard: *
Flammability: 0
Physical Hazards: 0**NFPA Rating**Health Hazard: 4
Fire Hazard: 0
Reactivity Hazard: 0**Potential Health Effects**Inhalation: Acute toxicity. Fatal if inhaled.
Skin: Acute toxicity. Fatal in contact with skin.
Eyes: May cause serious eye irritation.

Ingestion: Acute toxicity. Fatal if swallowed.
Carcinogenicity: May cause cancer.

Section 3. Composition/Information on Ingredients

Substances

Formula C₁₇H₁₂O₆
CAS No. 1162-65-8

Formula Wt. 312.27
EC No. 214-603-3

Section 4. First Aid Measures

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. Take victim immediately to hospital. 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.

Extinguishing Media Water spray, alcohol-resistant foam, carbon dioxide, or dry chemical powder.

Firefighting Procedures Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

Unusual Fire Hazards Carbon oxides.

Section 6. Accidental Release Measures

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

Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup Avoid raising 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 Store in a cool, dry and well-ventilated place in a tightly closed container. Recommended storage temperature: +4°C.

Hazardous Decomposition Products Not available.

Other Remarks Avoid light.

Section 8. Exposure Controls/Personal Protection

Personal protective equipment

EXPOSURE CONTROLS

Contains no substances with occupational exposure limit values.
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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: 0.11mm, Break through time: 480 min., Material tested: Dermatrill® (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

Physical State	Solid.	Color	White powder.
Boiling Point	Not available.	Volatility	Not available.
Melting Point	268°C-269°C	Density	Not available.
Solubility	Soluble in ethanol and methylene chloride.	pH	Not available.
Flash Point	Not available.	Ignition temperature	Not available.
Lower explosion limit	Not available.	Autoignition temperature	Not available.
Upper explosion limit	Not available.	Vapor pressure	Not available.
Water solubility	Not available.	Odor	Not available.
Partition coefficient: n-octanol/water	Not available.	Odor Threshold	Not available.
Relative vapor density	Not available.	Evaporation rate	Not available.

Section 10. Stability and Reactivity

Stability Stable under recommended storage conditions.

Materials To Avoid Strong oxidizing agents, strong bases.

Hazardous Decomposition Products Not available.

Possibility of hazardous reactions Not available.

Conditions to avoid Light sensitive.

Section 11. Toxicological Information

Oral LD50 Rat - 4.8 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 In vivo tests showed mutagenic effects.

Reproductive Toxicity Damage to fetus possible. Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Aspiration Hazard Not available.

Specific organ toxicity single exposure (GHS) Not available.

Synergistic effects Not available.

Specific organ toxicity repeated exposure (GHS) Not available.

Additional Information Not available.

Teratogenicity Not available.

Signs and symptoms of exposure RTECS: GY1925000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Liver - Irregularities - Based on Human Evidence

Potential Health Effects Inhalation: Acute toxicity. Fatal if inhaled.
Skin: Acute toxicity. Fatal in contact with skin.
Eyes: May cause serious eye irritation.
Ingestion: Acute toxicity. Fatal if swallowed.
Carcinogenicity: May cause cancer.

Carcinogenicity This is ar contains a components that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NPT or EPA classification. Possible human carcinogen.
IARC: 1 - Group 1: Carcinogenic to humans (Aflatoxin B1)
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: Known to be human carcinogen (Aflatoxin B1)
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 assessment PBT/vPvB assessment not available as chemical safety assessment not require/not

conducted.

Persistence and degradability Not available.

Other adverse effects Not available.

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 waste disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused product.

Section 14. Transport Information

DOT (US) UN Number: 3462 Class: 6.1 Packing Group: 1
Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin B1)
Reportable quantity (RQ): Marine pollutant: No Poison inhalation hazard: No

IATA UN number: 3462 Class: 6.1 Packing group: I
Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin B1)

IMDG UN number: 3462 Class: 6.1 Packing group: I EMS-No: F-A, S-A
Proper shipping name: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (Aflatoxin B1)
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 To Know Components No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components Aflatoxin B1 CAS #: 1162-65-8 Revision Date:

New Jersey Right To Know Components Aflatoxin B1 CAS #: 1162-65-8 Revision Date:

California Prop 65 Components WARNING! This product contains a chemical known to the State of California to cause cancer.
Aflatoxin B1 CAS #: 1162-65-8 Revision Date: 2007-09-28

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 5/23/2019

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