

Safety Data Sheet

Section 1. Product and Company Identification

Product Name 6-Mercaptopurine Monohydrate

Product ID M1669

Chemical Name

Purine-6-thiol, 6MP, Leukerin Mercaleukin, Purinethol: 6-Purinethiol

(Synonyms)

LKT Laboratories, Inc.

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Section 2. Hazards Identification

GHS Classification Acute toxicity, Oral (Category 3) H301

Germ cell mutagenicity (Category 2) H341 Reproductive toxicity (Category 2) H361

GHS Label elements including precautionary statements

Pictogram





Signal word

Danger

Hazard and precautionary statements **Hazard statements**

H301 - Toxic if swallowed. H341 - Suspected of causing genetic defects.

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statements

Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash skin thoroughly after handling.

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

P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

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 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. May cause skin irritation. Eyes - May cause eye irritation. Ingestion - Acute toxicity. Toxic if swallowed.

Section 3. Composition/Information on Ingredients

Substances Ingredient: Title Compound Percent: 100

Formula $C_5H_4N_4S \cdot H_2O$ Formula Wt. 170.20 CAS No. 6112-76-1 EC No. 200-037-4

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 off 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.

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

Not available.

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.

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. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

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

Recommended storage temperature: Ambient

Hazardous Decomposition Products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), sulfur oxides.

Other Remarks

Storage class (TRGS 510): 6. 1D: Noncombustible, acute toxic Cat. 3/ toxic hazardous materials or hazardous materials causing chronic effects.

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters.

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

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. Yellow crystalline powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility 313-314°C Not available. **Melting Point** Density Insoluble in water. Soluble in methanol and Not available. Solubility hot ethanol. 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: Not available. Not available. Odor n-octanol/water **Threshold** Relative vapor density Not available. Not available. **Evaporation**

Section 10. Stability and Reactivity

Stability

Stable under recommended storage conditions.

Materials To Avoid

Strong oxidizing agents, strong bases and strong acids.

Decomposition Products

Hazardous Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), sulfur

rate

Possibility of Not available. hazardous reactions

Conditions to avoid

Not available.

Section 11. Toxicological Information

Oral LD50 Rat - 277 mg/kg Remarks: anhydrous substance. 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

Germ cell mutagenicity Not available. Other information on Not available.

acute toxicity

Reproductive Toxicity Suspected of damaging fertility.

Suspected of damaging the unborn child.

Aspiration Hazard Not available.

Specific organ toxicity Not available. Synergistic effects Not available.

single exposure (GHS)

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information RTECS: UP0400000

To the best of our knowledge, the chemical, physical and toxicological properties have not

been thoroughly investigated.

Signs and symptoms Stomach - irregulariites - based on human Teratogenicity Not available.

of exposure evidence.

Potential Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Health Effects
Health Carried Inflation Inflation Inflation May cause respiratory tract inflation.

Health Effects

Eyes - May cause eye irritation.

Ingestion - Acute toxicity. Toxic if swallowed.

Germ cell mutagenicity - Suspected of causing genetic defects.

Reproductive toxicity - Suspected of damaging fertility. Suspected of damaging 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.

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.

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 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 solids, organic, n.o.s. (6-Mercaptopurine Monohydrate)

Poison Inhalation Hazard: No

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

Proper shipping name: Toxic solids, organic, n.o.s. (6-Mercaptopurine Monohydrate)

IMDG UN number: 2811 Class: 6.1

UN number: 2811 Class: 6.1 Packing group: III EMS: F-A, S-A Proper shipping name: TOXIC SOLIDS, ORGANIC, N.O.S. (6-Mercaptopurine Monohydrate)

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 III, 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 6-Mercaptopurine Monohydrate CAS #: 6112-76-1 Revision Date: **To Know Components**

New Jersey Right 6-Mercaptopurine Monohydrate CAS #: 6112-76-1 Revision Date: **To Know Components**

California Prop 65 This product does not contain any chemicals known to the 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 6/12/2020

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