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**Section 1. Product and Company Identification**

**Product Name** Aminopterin  
**Product ID** A5001  
**Chemical Name (Synonyms)** 4-Aminofolic acid  
**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

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**Section 2. Hazards Identification**

**GHS Classification** Acute toxicity, Oral (Category 2), H300  
Reproductive toxicity (Category 1B), H360

**GHS Label elements including precautionary statements**

**Pictogram**



**Signal word** Danger

**Hazard and precautionary statements**

**Hazard Statements**

H300 - Fatal if swallowed.  
H360 - May damage fertility or the unborn child.

**Precautionary Statements**

P201 - 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.  
P281 - Use personal protective equipment as required.  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P330 - Rinse mouth.  
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 - 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. Fatal if swallowed.  
Reproductive toxicity - May damage fertility or the unborn child.

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### Section 3. Composition/Information on Ingredients

<b>Substances</b>	N-[4-[[[(2,4-Diamino-6-pteridynyl)methyl]amino]benzoyl]-L-glutamic acid		
<b>Formula</b>	C <sub>19</sub> H <sub>20</sub> N <sub>8</sub> O <sub>5</sub>	<b>Formula Wt.</b>	440.41
<b>CAS No.</b>	54-62-6	<b>EC No.</b>	200-209-9

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### Section 4. First Aid Measures

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>Eye Contact</b>	Flush eyes with water as a precaution.
<b>Skin Contact</b>	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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### Section 5 . Firefighting Measures

<b>Flash Point</b>	Not flammable or combustible.
<b>Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
<b>Firefighting Procedures</b>	Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.
<b>Unusual Fire Hazards</b>	

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### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods and materials for containment and cleanup</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### Section 7. Handling and Storage

<b>Handling</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
<b>Storage Conditions</b>	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Ambient
<b>Hazardous Decomposition Products</b>	Carbon oxides, nitrogen oxides (NO <sub>x</sub> ).
<b>Other Remarks</b>	

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## Section 8. Exposure Controls/Personal Protection

### Personal protective CONTROLS

#### equipment

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: 0.11 mm, 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).

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## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Solid.	<b>Color</b>	Dark yellow-brown powder.
<b>Boiling Point</b>	Not available.	<b>Volatility</b>	Not available.
<b>Melting Point</b>	230°C-235°C or 437°F	<b>Density</b>	Not available.
<b>Solubility</b>	Soluble in DMSO or 2 N NaOH (50mg/mL).	<b>pH</b>	Not available.
<b>Flash Point</b>	Not flammable or combustible.	<b>Ignition temperature</b>	Not available.
<b>Lower explosion limit</b>	Not available.	<b>Autoignition temperature</b>	Not available.
<b>Upper explosion limit</b>	Not available.	<b>Vapor pressure</b>	Not available.
<b>Water solubility</b>	Not available.	<b>Odor</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not available.	<b>Odor Threshold</b>	Not available.
<b>Relative vapor density</b>	Not available.	<b>Evaporation rate</b>	Not available.

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## Section 10. Stability and Reactivity

**Stability** Stable under recommended storage conditions.

**Materials To Avoid** Strong oxidizing agents.

**Hazardous Decomposition Products** Carbon oxides, nitrogen oxides (NOx).

**Possibility of hazardous reactions** Not available.

**Conditions to avoid** Light.

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## Section 11. Toxicological Information

**Oral LD50** Not available.

**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** Not available.

**Reproductive Toxicity** May cause congenital malformation in the fetus. Presumed human reproductive toxicant.

**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** RTECS: MA1050000  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Teratogenicity** Not available.

**Signs and symptoms of exposure** Blood disorders.  
Stomach - irregularities - based on human evidence.

**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. Fatal 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.

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## Section 12. Ecological Information

**Toxicity** Not available.

**Mobility in soil** Not available.

**PBT and vPvB assessment** PBT/vPvB assessment not available not available as chemical safety assessment not

required/ not conducted.

**Persistence and degradability** Not available.

**Other adverse effects** Not available.

**Bioaccumulative potential** Not available.

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### Section 13. Disposal Considerations

**Waste Disposal** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. 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.

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### Section 14. Transport Information

**DOT (US)** UN number: 2811 Class: 6.1 Packing group: I  
Proper shipping name: Toxic solids, organic, n.o.s. (Aminopterin)  
Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No

**IATA** UN number: 2811 Class: 6.1 Packing group: I  
Proper shipping name: Toxic solid, organic, n.o.s. (Aminopterin)

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

#### Further Information

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### Section 15. Regulatory Information

#### Reach No.

**SARA 302 Components** The following components are subject to reporting levels established by SARA Title III, Section 302:  
N-[4-[[[(2,4-Diamino-6-pteridiny)l)methyl]amino]benzoyl]-L-glutamic acid CAS#: 54-62-6 Revision Date: 04/24/93

**SARA 313 Components** SARA313: This material does not contain any chemical components with known CAS number that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Components** Hazards: Acute health hazard, Chronic Health Hazard

**Massachusetts Right To Know Components** Aminopterin CAS #: 54-62-6 Revision Date: 1993-04-24

**Pennsylvania Right To Know Components** Aminopterin CAS #: 54-62-6 Revision Date: 1993-04-24

**New Jersey Right To Know Components** Aminopterin CAS #: 54-62-6 Revision Date: 1993-04-24

**California Prop 65 Components** WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.  
Aminopterin CAS #: 54-62-6 Revision Date: 1987-07-01

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### 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** 5/24/2019

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