Safety Data Sheet
Aminopterin

1. Identification

Product name:
Catalog\#:
IUPAC name:
Product use restrictions:
Company:

Telephone:
Website:
Emergency contact number:

Aminopterin
MSIZ3082
(2S)-2-[[4-[(2,4-diaminopteridin-6-
yl)methylamino]benzoyl]amino]pentanedioic aci
Only for research and development use by, or directly under the supervision of, a technically qualified individual.
MetaSci Inc.
1 Yonge St., Suite 1801
Toronto, M5E 1W7, ON, Canada
(510) 429-8835
www.metasci.ca
1-800-633-8253 United States \& Canada
1-801-629-0667 International
2. Hazard Identification

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


Signal word
Danger
Hazard statement(s)
H300
H360
Fatal if swallowed.
May damage fertility or the unborn child.
Precautionary statement(s)
P201
P202

P264
P270
P281
P301+P310

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use personal protective equipment as required.
IF SWALLOWED: Immediately call a poison center or doctor.

P308+P313
P321
P330
P405
P501

IF EXPOSED or concerned: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label).
Rinse mouth.
Store locked up.
Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS
None

## 3. Composition/Information on Ingredients

Synonyms: No data available.
CAS\#: 54-62-6
Purity: No data available.
EC\#: 200-209-9

## 4. First Aid Measures

General information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.
Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.
Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately. Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.
Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately. Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11 .
Indication of any immediate medical attention and special treatment needed: No further information available.

## 5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam.
Specific hazards arising from the chemical: Nitrogen oxides, Carbon oxides
Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8 .

Environmental precautions: Do not let product enter drains, other waterways, or soil.
Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

## 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Air sensitive. Light sensitive. Recommended storage temperature: $2-8^{\circ} \mathrm{C}$.

## 8. Exposure Controls/Personal Protection

## Exposure limits

OSHA PEL: No data available.
NIOSH REL: No data available.
ACGIH TLV: No data available.
Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Personal protection
Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant safety glasses or goggles with side

Eyes:

Hands:

Skin and body:
protection. A face shield may be appropriate in some workplaces. Use eyewear tested and approved under appropriate government standards such as OSHA 29 CFR 1910.133 or EU EN166. Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical conditions of the workplace, and the chemical resistance and physical properties of the glove material.
Protective clothing must be selected based on the hazards present in the workplace, the physical environment, the duration of

Respiratory:
exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and close-toed footwear. Respirators are not a substitute for accepted engineering control measures such as enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.
9. Physical and Chemical Properties

Physical State:
Molecular Formula: $\quad$ C19H20N8O5
Molecular Weight:
Odor:
pH :
Boiling Point Range: No data available.
Freezing/Melting Point: $\quad 228-235^{\circ} \mathrm{C}$
Flash Point:
Evaporation Rate:
Flammability (solid, gas):
Explosive limits:
Vapor Pressure:
Vapor Density:
Solubility:
Relative Density:
Refractive Index:
Volatility:
Auto-ignition
temperature:
Decomposition
Temperature:
Partition Coefficient: No data available.

## 10. Stability and Reactivity

Reactivity:
Chemical stability:
Possibility of hazardous
reactions:
Conditions to avoid:
Incompatible materials:
Hazardous decomposition products:

No data available.
Stable under recommended temperatures and pressures.
No data available.
Dust generation. Light. Air. Heat.
Strong oxidizing agents.
Nitrogen oxides, Carbon oxides

## 11. Toxicological Information

RTECS\#: MA1050000

Acute toxicity:
Routes of exposure:
Symptoms related to the physical, chemical and toxicological characteristics:

Carcinogenicity
IARC:
NTP:
OSHA:
Acute toxic effects:

MA1050000
No data available.
Inhalation, eye contact, skin contact, ingestion.
Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage.
Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

Not classified.
Not listed.
Not listed.
Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
12. Ecological Information

| Ecotoxicity: | No data available. |
| :---: | :---: |
| Persistence and | No data available. |
| degradability: |  |
| Bioaccumulative potential: | No data available. |
| Mobility in soil: | No data available. |
| Other adverse effects: | No data available. |
| 13. Disposal Considerations |  |
| Disposal of waste: | Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local regulations when disposing of the substance. |
| Disposal of packaging: | Do not reuse containers. Dispose of as unused product. |
| 14. Transportation Information |  |
| DOT (United States) |  |
| UN number: | UN2811 |
| Proper shipping name: | Toxic solids, organic, n.o.s. (Aminopterin) |
| Transport hazard class: | 6.1 |
| Packing group: | I |

Safety Data Sheet
Aminopterin
UN number:
Proper shipping name:
Transport hazard class:
Packing group:
15. Regulatory Information

TSCA Chemical Inventory:
This product is on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

Canada
DSL/NDSL:
California
Proposition 65:
NFPA Rating:

This product is listed in the Non-Domestic Substance List (NDSL). A New Substance Notification may be required prior to import or manufacture in Canada.
WARNING: Attention California residents: This product can expose you to chemicals known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. Health: No data available.
Flammability: No data available. Instability: No data available.

## 16. Additional Information

Revision Date: 08/08/2019
Printed Date: 5/30/2023

## Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall MetaSci be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if MetaSci has been advised of the possibility of such damages.

