

Metamitron -MATERIAL SAFETY DATA SHEET

Manufacturer/information service:

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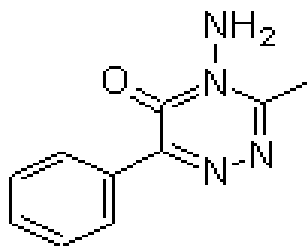
1. Chemical Product Identification

Product Name: Metamitron

Molecular Formula: C₁₀H₁₀N₄O

Molecular Weight: 202.21

Structural Formula:



Chemical Name: 3-Methyl-4-amino-6-phenyl-1,2,4-triazin-5(4H)-one

Form: Solid

Color: Light brown.

Odor: Faint odor

CAS No.: 41394-05-2

2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Metamitron	41394-05-2	98.0
Other ingredients		2.0

3. Hazards Identification

Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

Skin contact: Remove all contaminated clothes and shoes. Wash off immediately with soap and plenty of water (15 - 20 minutes). Get medical attention if irritation persists.

Eyes contact: Rinse immediately with plenty of water and seek medical advice.

Inhalation: Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention immediately.

Ingestion: Remove by gastric lavage and catharsis. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is unconscious. Get medical attention immediately.

5. Fire-Fighting Measures

Extinguishing media: Dry chemical, carbon dioxide, halon, water spray or standard foam.
Unsuitable extinguishing: High pressure water jet media.

Special exposure hazards: Do not release chemically contaminated water into drains, soil and surface waters.

Special protective: As for all fires involving chemicals : chemical protection suit, suitable gloves equipment for fire-fighters and boots, and self-contained breathing apparatus.

6. Accidental Release Measures

Methods for cleaning up: Do not touch spilled material. Stop leak if you can do it without risk.

For small spills, take up with sand or other absorbent material and place into containers for later disposal. For small dry spills, with a clean shovel place material into clean, dry containers and cover. Move containers from spill area.

For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed space.

Environmental precautions: Prevent contamination of water.

7. Handling And Storage

Handling precautions: Keep product in original tightly closed container; avoid inhalation of particles, do not get on skin, eyes or clothing; do not eat, drink or smoke when handling; wash hands before eating, drinking or smoking.

Storage: Store in locked, well-ventilated storeroom, away from children and unauthorised personnel, and food and animal feed.

8. Exposure Controls/Personal Protection

Ventilation: Provide local exhaust or general dilution ventilation.

Exposure control limits:

Respiratory protection: Wear a suitable mask.

Hand protection: Wear rubber or plastic gloves.

Eye protection: Wear splash-proof or dust-resistant safety goggles.

Skin and body protection: Wear overalls and closed footwear.

9. Physical and Chemical Properties

Melting point: 166.6°C

Bulk density: 0.5 g/mL

Vapour pressure: 0.86 mPa @ 20°C

Solubility in water: 1.76 g/L @ 20°C

Octanol/water partition coefficient: $\log P = 0.85$ @ 21°C

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures.

Conditions to avoid: May burn but does not ignite readily.

Material to avoid: Alkaline materials can cause hydrolysis, strong oxidisers can cause fire and explosion hazards.

Hazardous decomposition: Thermal decomposition products may include toxic oxides of carbon and nitrogen.

11. Toxicological Information

Acute LD50 oral rats: 2463 mg/kg.

Acute LD50 dermal rats: > 2000 mg/kg.

Acute LC50 inhalation rats (4 h): The product is nearly dust free, so there is no inhalation acute hazard.

Eye irritation: Mild irritant.

Skin irritation: Not irritant.

Skin sensitization: Not a skin sensitiser.

12. Ecological and Ecotoxicological Information

LC50 (96 h) rainbow trout > 143 mg/l

Acute LD50 oral bobwhite quail > 2000 mg/kg

Bee toxicity: Not toxic to bees, LD50 (48 h) oral and contact > 25 mg/bee.

Aquatic invertebrates: *Daphnia magna* EC50 (48 h) > 50 mg/l

Soil: Metamitron is degraded very rapidly.

13. Disposal Considerations

Pesticide disposal: Bury in a specially designated landfill (soil burial should suffice, do not contaminate water sources). Always dispose of in accordance with local regulations.

Container disposal: Packaging should be disposed of at a specialised chemical waste disposal facility.

14. Transport Information

Not applicable.

15. Regulatory Information

Not applicable.

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.