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# MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

ADD: NO.52 PUCHANG ROAD, PUZHOU INDUSTRIAL PARK, LONGWAN DISTRICT,

WENZHOU ZHEJIANG P.R. CHINA

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### 1. Chemical Product Identification

Common Name: Metamitron 98% TC

Molecular Formula: C<sub>10</sub>H<sub>10</sub>N<sub>4</sub>O

Molecular Weight: 202.21

Structural Formula:

Chemical Name: 4-amino-4,5-dihydro-3-methyl-6-phenyl-1,2,4-triazin-5-one

Form: Powder

Color: Light yellow to off white

Odor: Faint odor

CAS No.: 41394-05-2

# 2. Composition / Information On Ingredients

Composition	CAS No.	Content %
Metamitron	41394-05-2	98
Other ingredients		2

#### 3. Hazards Identification



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Physical hazards: No hazards known at this time.

Human health hazards: Harmful if swallowed.

Environmental hazards: Toxic to aquatic organisms, may cause long term adverse effects in

the aquatic environment.

#### 4. First Aid Measures

General advice: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection!. Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion: Rinse mouth. Drink plenty of water. If symptoms persist, call a physician. Self-protection of the first aider: Use personal protective equipment as required.

## 5. Fire-Fighting Measures

Extinguishing media:

- suitable: Water Spray, Foam, Dry Chemical, CO2.

- unsuitable : High pressure water-jet.

Special hazards: in case of fire nitrogen oxides and carbon monoxide will be produced Personal protection: breathing protection

#### 6. Accidental Release Measures

Personal precautions: Avoid contact with eyes, do not breathe spray. Wear personal protective equipment (See section 8).

Environmental precautions: Prevent spillage into the soil or the aquatic environment. Avoid contact with vegetation and crops.

Methods for cleaning: Contain spill and absorb with sand or propriety absorbent (vermiculite). Collect contaminated material in heavy duty plastic bags or drums. Dispose of through a reputable waste disposal contractor. Final cleanup with degreasing agent or



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detergent is advised. Additional advice: Never return spills in original containers for re-use.

## 7. Handling And Storage

Handling: Keep product in original tightly closed container; do not get on skin, eyes or clothing. Wear recommended personal protective equipment.

Storage: Store in locked, ventilated area. Store away from incompatible materials (strong oxidizers) and heat sources.

### 8. Exposure Controls/Personal Protection

Engineering measures: Take into account direction of the wind.

Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

Respiratory Protection: Filter respirator or self containing breathing apparatus.

Eye Protection: Wear face-shield. Provide an emergence eyewash fountain and quick drench shower in the immediate work area.

Hand Protection: PVC or other plastic material gloves should be used when dealing with the concentrate or spray.

Skin Protection: Wear suitable (chemical resistant) overalls and closed footwear.

### 9. Physical and Chemical Properties

Appearance: Light yellow to off white powder

pH: 5.0-8.0

Water content: ≤0.5%

Insoluble in acetone: ≤0.5%

Melting point: 166.6°C

Bulk density: 1.35 g/ml

Partition Coefficient:  $\log P = 0.85$  (at pH 7, 20°C)

Vapour pressure:  $7.44 \times 10^{-4}$  mPa (25°C)

Solubility: 1.77 g/l in water ( $20^{\circ}$ C); In organic solvents: 37 g/l in acetone, 33 g/l in

dichloromethane, 20 g/l in ethyl acetate, 2 g/l in xylene (all at  $20^{\circ}$ C).

## 10. Stability and Reactivity



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Chemical stability: Stable at normal temperature and pressure.

Conditions to avoid: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible products (strong oxidizers, strong bases (decomposition)).

Hazardous Decomposition products: Oxides of carbon, oxides of nitrogen.

### 11. Toxicological Information

Acute oral LD50 for rat: 1183 a.i.mg/kg

Acute dermal LD50 for rat: >5000 a.i.mg/kg Inhalation LC50 (4 h) for rat: 3.17 a.i.mg/L Skin irritation: Non-irritating to skin (rabbits) Eye irritation: Non-irritating to eyes (rabbits)

Skin sensitization: Not a skin sensitiser (guinea pigs).

### 12. Ecological And Ecotoxicological Information

Effect on birds: moderate toxicity to birds, acute LD50 for Japanese quail is 1302 a.i.mg/kg. Effect on fish: low toxicity to fish, acute 96 hour LC50 for Bluegill sunfish is ≥ 190 a.i.mg/L. Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour

EC50 for Daphnia magna is 5.7 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC50 for Pseudokirchneriella subcapitata is 0.4 a.i.mg/L.

Effect on honeybees: low-moderate toxicity to honeybees, contact acute 48 hour LD50 is >100 a.i.μg/bee, oral acute 48 hour LD50 is >97.2 a.i.μg/bee.

Effect on earthworms: moderate toxicity to earthworms, acute 14 day LC50 for Eisenia foetida is 914 a.i.mg/kg.

### 13. Disposal Considerations

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.



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# 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.