



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

ZHEJIANG RAYFULL CHEMICALS CO., LTD

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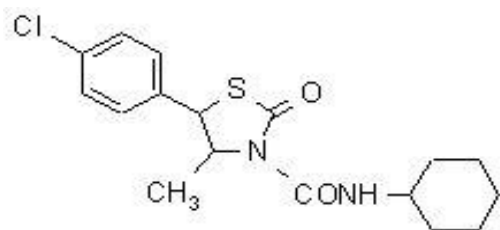
### 1. Chemical Product Identification

Product Name: Hexythiazox 100 g/l EC

Molecular Formula: C<sub>17</sub>H<sub>21</sub>ClN<sub>2</sub>O<sub>2</sub>S

Molecular Weight: 352.90 g/mol

Structural Formula:



Chemical Name: (4RS,5RS)-5-(4-chlorophenyl)-N-cyclohexyl-4-methyl-2-oxo-1,3-thiazolidine-3-carboxamide

Form: solid

Color: Pale yellow

Odor: Faint ligneous odor

CAS No.: 78587-05-0

### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Hexythiazox	78587-05-0	10.0
Other ingredients		90.0



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### 3. Hazards Identification

Symptoms of Acute Exposure: Not available

Medical Conditions Likely to be Aggravated by Exposure: None known

Primary Routes of Exposure: May irritate eyes, nose, throat and skin.

Hazardous Decomposition Products: Decomposition will not occur

Unusual Fire, Explosion, and Reactivity Hazards: May be ignited by heat or open flame.

Dust forms explosive mixture in air

### 4. First Aid Measures

If on Skin Or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If Swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for further treatment advice.

### 5. Fire-Fighting Measures

Flashpoint (test method): Not applicable to solid

Appropriate Extinguishing Media: Use water spray, fog, dry chemical, or CO<sub>2</sub>.

Fire Fighting Guidance: Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Use water spray. Cool tank/container with water spray. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water will increase contamination hazard.

Unusual Fire, Explosion, and Reactivity Hazards: Toxic fumes such as hydrogen chloride (HCl) and oxides of nitrogen (NOX) may develop if product is burned. Dispersion of fine dust in air may form explosive mixture.

### 6. Accidental Release Measures



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## In Case of Spills or Leaks:

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. Isolate area and keep unauthorized people away. Avoid breathing dusts and skin contact. Avoid generating dust (a fine water spray mist, plastic film cover, or floor sweeping compound may be used if necessary). Wear proper protective equipment. Place in covered container for reuse or disposal. Scrub contaminated area with detergent and bleach solution. Repeat. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect the wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways or contact vegetatio

## 7. Handling and Storage

May irritate eyes, nose, throat and skin. Harmful if inhaled. Avoid breathing dust or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Precautions in storing: DO not contaminate water, food or feed by storage or disposal.

Storing: Store product in original container only, away from other pesticides, fertilizers, food, or feed.

## 8. Exposure Controls/Personal Protection

Eye/Face: Not required; use normal safety precautions.

Skin Protection: Applicators and other handlers must wear coveralls over short-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Respiratory Protection: Not required; use normal safety precautions.

Other/General Protection: Emergency eyewash fountain should be located nearby. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Workers should avoid breathing dust and spray vapors or mist. Avoid dust generation. Avoid contact with eyes, skin and clothing.

## 9. Physical and Chemical Properties



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Appearance: Pale yellow liquid

pH: 5.0-8.0

Moisture:  $\leq 0.5\%$

Emulsion stability: Qualified

Specific gravity: 0.945

## 10. Stability and Reactivity

Stability: Stable

Polymerization: Will not occur

Products: Decomposition will not occur

To Avoid: None known

## 11. Toxicological Information

Acute oral LD<sub>50</sub> for rats is  $>5000$  a.i.mg/kg.

Acute dermal LD<sub>50</sub> for rats is  $>5000$  a.i.mg/kg.

Acute inhalation toxicity LC<sub>50</sub> (4 h) for rats is  $>2.0$  a.i.mg/l.

Skin irritation: Non-irritating to skin (rabbits).

Eye irritation: Slightly irritating to eyes (rabbits).

Skin sensitization for guinea pig: Not a skin sensitiser.

## 12. Ecological and Ecotoxicological Information

Effect on birds: Acute oral LD<sub>50</sub> for Mallard is  $>2000$  a.i.mg/kg.

Effect on fish: Acute LC<sub>50</sub> (96 h) for Rainbow trout is  $0.04$  a.i.mg/l.

Effects on aquatic invertebrates: Acute EC<sub>50</sub> (48 h) for Daphnia magna is  $>0.47$  a.i.mg/l.

Effects on algae: Acute EC<sub>50</sub> (72 h) for Scenedemus subspicatus is  $>0.4$  a.i.mg/l.

Effects on bees: Contact acute (48 h) LD<sub>50</sub> is  $>200$  a.i.µg/bee, Oral acute (48 h) LD<sub>50</sub> is  $>112$  a.i.µg/bee.

Effects on earthworms: Acute 14 day LC<sub>50</sub> is  $>105$  a.i.mg/kg.

## 13. Disposal Considerations

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning,



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or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### **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.