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MATERIAL SAFETY DATA SHEET

CIERTO Gold 40 SC

1. Chemical Product Identification

Active ingredient (%): Etoxazole 10% + Bifenazate 30% SC Chemical name:

Bifenazate: 1-methylethyl 2-(4-methoxy[1,1′-biphenyl]-3-yl)hydrazine carboxylate

Etoxazole: (RS)-5-tert-butyl-2-[2-(2,6-difluorophenyl)-4,5-dihydro-1,3-oxazol-4yl]phenetole

Manufacture: ZHEJIANG WELL-DONE CHEMICAL CO., LTD

Address: Chaoshan Scenic spot, Yuhang, Hangzhou Zhejiang, China.

2. Composition / Information on Ingredients

Composition	CAS No.	Content w/v %
Bifenazate	149877-41-8	30%min
Etoxazole	153233–91–1	10%min
Other ingredients	-	60%max

3. Hazards Identification

Hazard Classification: Classified as a hazardous chemical according to the Australian criteria for the classification of chemicals **Risk Phrases:**

R20 Harmful by inhalation.

R37 Irritating to respiratory system

R43 May cause sensitization by skin contact.

4. First Aid Measures

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

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

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

Notice to doctor: no specific antidote. Treat symptomatically and supportively.

5. Fire-Fighting Measures

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion. **In Case of Fire:** Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. Accidental Release Measures

In Case of Spill or Leak: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal

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container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. Handling and Storage

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use a NIOSH approved respirator with any HE filter.

9. Physical and Chemical Properties

Colour: Light beige

Physical state: Liquid

Odor: No characteristic odour

PH: 5.0-9.0

Flammability: Not flammable **Explosivity:** Not explosive **Viscosity:** Non-viscos
Corrosivity: Non Corrosivity

Suspensibility: ≥90.0%

% persistent foam: ≤ 60 ml after 1min.

Storage stability

Heat stability (2 weeks at 54 ℃): 54º±2℃

for 14 days shows no changes Cold stability

(for liquid):

(under 5ºC) for 15 days shows no changes

10. Stability and Reactivity Chemical

Stability:

Stable at normal ambient temperature and pressure.

Conditions to Avoid:

None known.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

Combustion or thermal decomposition will evolve toxic and irritant vapors **Hazardous**

Reactions:

Hazardous polymerization does not occur.

11. Toxicological Information

Oral Acute oral LD50 for rats >2000 mg/kg.

Skin and eye Acute dermal LD50 for rats >2000 mg/kg. No skin irritation; slight eye irritation (rabbits). Not a guinea pig skin sensitizer (Buehler).

Inhalation LC50 for rats >5.7 mg/l.

12. Ecological and Ecotoxicological Information (Technical)

Birds Acute oral LD50 for bobwhite quail ＞2000 mg/kg.
Fish LC50 (96 h) for bluegill sunfish 0.97, rainbow trout 1.89 mg/l.

Daphnia EC_{50} (48 h) 0.50 mg/l.

Algae E_bC_{50} (72 h) for *Skeletonema costatum* 0.30 mg/l (*EU Rev. Rep.*); E_rC_{50} (96 h) for *Selenastrum capricornutum* 0.90 mg/l.

Other aquatic spp. EC_{50} (96 h) for eastern oysters 0.42 mg/l (*EU Rev. Rep.*).

Worms LC50 (14 d) >1250 mg/kg.

Other beneficial spp. Harmless to predacious mites such as the phytoseiids *Amblyseius fallacis*, *Galendromus occidentalis* and *Zetzellia mali*. 'Harmless' to *Chrysoperla carnea*, *Encarsia formosa* and *Poecilus cupreus* (IOBC)

13. Disposal Considerations

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local health and environmental regulations.

14. Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations.

15. Regulatory Information

Follow all regulations in your country.

16. Other Information

Disclaimer: The information provided by manufacturer contained herein is given in good faith and to the best of our knowledge. However, no warranty is expressed or implied.