

# 江苏丰登作物保护股份有限公司

JIANGSU FENGDENG CROP SCIENCE CO.,LTD

[www.fdpesticide.com](http://www.fdpesticide.com)

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## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

- \* PRODUCT NAME: Tebuconazole
- \* ADDRESS/ PHONE NO.: Jiangsu Fengdeng Crop Science Co.,Ltd  
Dengguan, Jintan City, Jiangsu 213253, P.R.C  
TEL: 0086-519-82422752  
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### 2. COMPOSITION/INFORMATION ON ACTIVE INGREDIENT

- \* PRODUCT DESCRIPTION: Fungicide
- \* C.A. NAME: (±)-α-[2-(4-chlorophenyl) ethyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol
- \* CAS RN: [107534-96-3]

### 3. HAZARDS IDENTIFICATION

- \* TOXICITY CLASS: WHO (a.i) III
- \* SIGNAL WORD: CAUTION

### 4. FIRST-AID MEASURES

- \* INHALATION: Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.
- \* SKIN CONTACT: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and decontaminate prior to use.
- \* EYE CONTACT: Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.
- \* INGESTION: If victim is fully conscious, give 1 or 2 glasses of water to drink and induce vomiting. Never give anything by mouth to an unconscious person.
- \* NOTES TO PHYSICIAN: There is no specific antidote if this product is ingested. If a large amount has been ingested and emesis is inadequate, lavage stomach. Treat symptomatically. An aqueous

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suspension of activated charcoal can be administered to absorb remaining toxicant.

## 5. FIRE-FIGHTING PROTECTIVE EQUIPMENT

- \* EXTINGUISHING MEDIA: Use water, foam, carbon dioxide, or dry chemical to extinguish fires.
- \* FIRE FIGHTING PROTECTIVE EQUIPMENT: Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

- \* SPILLAGES: Keep away from all ignition sources. Ventilate the spill area. Avoid breathing vapor. Use self-contained breathing apparatus or air-line respirator for large spills in confined areas. Dike the spill with inert material (sand, earth, etc.) and transfer the liquid or solid dike material to separate containers for recovery or disposal. Remove the contaminated clothing promptly and wash exposed skin areas with soap and water. Wash clothing before reuse.
- \* UNCONTROLLED DISCHARGE: Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory.

## 7. HANDLING AND STORAGE

- \* STORAGE AND HANDLING: Keep out of the reach of children. Do not get in eyes, on skin, or clothing. Avoid breathing vapor and spray mist. Users should wash hands before eating, drinking, using tobacco, or using the toilet. For handling relative to the end-use of this product, read the product label. Store in original container in a dry storage area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE CLOTHING: Use chemical splash goggles. Eye protecting worn must be compatible with respiratory protection system employed. Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Items, which cannot be decontaminated, such as shoes, belts, and watchbands, should be removed, destroyed, and disposed of.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- \* FORM: Colourless to light brown powder

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- \* MELTING POINT: 105°C
- \* V.P.: 1.7 X 10<sup>-3</sup> mPa (20°C)
- \* FLASH POINT: NA
- \* SOLUBILITY: In water 36mg/l (pH 5-9, 20°C). In dichloromethane >200, isopropanol, toluene 50-100, hexane <0.1 (all in g/l, 20°C).

## 10. STABILITY AND REACTIVITY

- \* STABLE: YES
- \* CONDITONS TO AVOID: NONE
- \* HAZARDOUS POLYMERIZATION: NO
- \* POLYMERIZATION: Will not occur.
- \* HAZARDOUS DECOMPOSITION PRODUCTS: High temperatures of fire may produce irritating gases & vapors.

## 11. TOXICOLOGICAL INFORMATION

- \* ORAL: Acute oral LD<sub>50</sub> for male rats 4000, female rats 1700, mice c. 3000 mg/kg.
- \* SKIN AND EYE CONTACT: Acute percutaneous LD<sub>50</sub> for rats >5000 mg/kg. Non-irritating to skin, mild irritant to eyes (rabbits).
- \* INHALATION: LD<sub>50</sub> (4 h) for rats 0.37 mg/l air (aerosol), >5.1 mg/l (dust)
- \* NOEL: (2 y) for rats 300, dogs 100, mice 20 mg/kg diet.

## 12. ECOLOGICAL INFORMATION

**BREAKDOWN IN SOIL AND GROUNDWATER:** The degradation of tebuconazole in soil was slow in laboratory studies. Under field conditions, the compound degraded much more rapidly, and did not accumulate in long-term studies (3-5 y).

**ANIMALS:** After three days, elimination was almost complete (>99%). Tebuconazole was excreted with the urine and the faeces.

### \* TOXICITY FOR FISH, BIRDS, BEES, DAPHNIA

Birds: Acute oral LD<sub>50</sub> for male Japanese quail 4438, female Japanese quail 2912, bobwhite quail 1988 mg/kg.

Fish: Acute LC<sub>50</sub> (96h) for rainbow trout 6.4, golden orfe 8.7 mg/l.

Bees: Non-toxic to bees.

Daphnia: LC<sub>50</sub> (48 h) 11.5 mg/l.

## 13. DISPOSAL CONSIDERATIONS

Large amounts should be incinerated at high temperature in a unit with effluent gas scrubbing. When

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no incinerator is available, bury in an approved dump, or in an area where there is no risk of contamination of surface or groundwater. Before burying, liberally mix with sodium carbonate crystals, to help neutralize the product, and with soil rich in organic matter. Comply with any local legislation.

## 14. TRANSPORT INFORMATION

Take with care. Keep locked up. Keep away from fire. Do not contaminate water, food, or feeds by stage or disposal.

IMO UN NO.: 3077

IMO CLASS NO: 9

PACKAGE CLASS: III

## 15. REGULATORY INFORMATION

Tebuconazole is a slightly hazardous compound in WHO III. Products containing Tebuconazole must bear the Signal Word CAUTION on the label because some formulated products may have higher toxicities. It is a General Use Pesticide (GUP).

GENERAL COMMENTS: Read label. Contact your State Pesticide of Environment Control Agency, of the Hazardous Waste representative at the nearest EPA Regional Office on guidance for disposal. Do not contaminate water, food or feed by disposal. Open dumping is prohibited. Dispose of container in an approved waste facility.

## 16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the product in terms of its safety requirements. The data does not signify and warranty with regard to the product's properties.