

# 河北捷润科技有限公司

## Hebei JRain Technology Co., Ltd.

Date: Apr.12th, 2024

### MATERIAL SAFETY DATA SHEET

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

\* PRODUCT NAME: Tebuconazole 96% TC

\* ADDRESS/ PHONE NO.:

No. 66 XIANGTAI ROAD, YUHUA DISTRICT, SHIJIAZHUANG CITY, HEBEI  
PROVINCE, CHINA

\* EMERGENCY PHONE NO.: 86-311-80680379

#### 2. COMPOSITION/INFORMATION ON ACTIVE INGREDIENT

\* Composition: Tebuconazole tech

\* C.A. NAME:  $(\pm)$ - $\alpha$ -[2-(4-chlorophenyl) ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-yl  
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 suspension of activated charcoal can be administered to absorb remaining toxicant.

#### 5. FIRE-FIGHTING PROTECTIVE EQUIPMENT

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\* 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 diking 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 production 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: off-white powder

\* MELTING POINT: 105°C

\* V.P.:  $1.7 \times 10^{-3}$  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

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- \* STABLE: YES
- \* CONDISITONS 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 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.

class: 9

un no.: 3077

packing group: III

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### 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 or Environment Control Agency, or 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

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.

HEBEI JRRAIN TECHNOLOGY CO.,LTD.