

# COCREATE GLOBAL TECHNOLOGIES PRIVATE LIMITED

U21009KA2023PTC179006

**Registered address:** FFK Towers, #445, 2nd Floor, 17th Cross Road, Sector 4, HSR Layout, Bangalore, Bangalore South, Karnataka - 560102, India.

**Email:** info@scimplify.com

**Website:** www.scimplify.com



## SAFETY DATA SHEET

### Tebuconazole Technical

#### 1. Identification of the Substance and Supplier

- **Product Name:** Tebuconazole Technical
- **Chemical Name:** (RS)-1-(4-Chlorophenyl)-4,4-dimethyl-3-(1H-1,2,4-triazol-1-ylmethyl)pentan-3-ol
- **CAS Number:** 107534-96-3
- **Molecular Formula:** C<sub>16</sub>H<sub>22</sub>ClN<sub>3</sub>O
- **Intended Use:** Fungicide for crop protection
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited

#### 2. Hazard Identification

- **GHS Classification:** Acute Toxicity (Oral) Category 4, Skin Irritant Category 2, Eye Irritant Category 2A, Carcinogenicity Category 2, Aquatic Toxicity Category 2
- **Signal Word:** Warning
- **Hazard Statements:**
  - H302: Harmful if swallowed
  - H315: Causes skin irritation
  - H319: Causes serious eye irritation
  - H351: Suspected of causing cancer
  - H411: Toxic to aquatic life with long-lasting effects
- **Precautionary Statements:**
  - P280: Wear protective gloves/eye protection
  - P270: Do not eat, drink, or smoke when using this product
  - P305 + P351 + P338: If in eyes, rinse cautiously with water

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## 3. Composition / Information on Ingredients

| Ingredient              | CAS Number  | Percentage |
|-------------------------|-------------|------------|
| Tebuconazole            | 107534-96-3 | 95% – 98%  |
| Other Inert Ingredients | N/A         | Balance    |

## 4. First-Aid Measures

- **Inhalation:** Move person to fresh air. If breathing difficulties persist, seek medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. If irritation develops, seek medical advice.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention immediately.

## 5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, CO<sub>2</sub>
- **Specific Hazards:** May emit toxic fumes under fire conditions (carbon oxides, nitrogen oxides, hydrochloric acid)
- **Protective Equipment for Firefighters:** Use self-contained breathing apparatus (SCBA) and full protective gear.

## 6. Accidental Release Measures

- **Personal Precautions:** Avoid contact with skin and eyes. Wear protective gloves, goggles, and clothing.
- **Environmental Precautions:** Prevent entry into water bodies and drains.
- **Cleanup Methods:** Absorb with sand or inert absorbent material. Collect and dispose of properly according to regulations.

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## 7. Handling and Storage

- **Handling Precautions:**
    - Use in a well-ventilated area.
    - Avoid inhalation, skin, and eye contact.
    - Wash hands thoroughly after handling.
  - **Storage Conditions:**
    - Store in a cool, dry place away from heat and direct sunlight.
    - Keep container tightly closed.
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## 8. Exposure Controls / Personal Protection

- **Exposure Limits:** No established limits for Tebuconazole.
  - **Engineering Controls:** Use local exhaust ventilation if required.
  - **Personal Protective Equipment (PPE):**
    - **Eye Protection:** Safety goggles
    - **Skin Protection:** Chemical-resistant gloves, protective clothing
    - **Respiratory Protection:** Use a respirator if exposure limits are exceeded
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## 9. Physical and Chemical Properties

- **Appearance:** White to light beige crystalline solid
- **Odor:** Mild characteristic odor
- **pH:** Not applicable
- **Density:** ~1.26 g/cm<sup>3</sup>
- **Solubility:** Slightly soluble in water (32 mg/L at 20°C)
- **Flash Point:** >100°C
- **Melting Point:** 102-104°C

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- **Boiling Point:** Not determined
  - **Vapor Pressure:**  $4.0 \times 10^{-6}$  Pa at 20°C
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### 10. Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions
  - **Conditions to Avoid:** High temperatures, direct sunlight
  - **Incompatible Materials:** Strong acids, strong bases, oxidizing agents
  - **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, hydrochloric acid
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### 11. Toxicological Information

- **Acute Toxicity (Oral LD50):** ~1700 mg/kg (Rat)
  - **Acute Toxicity (Dermal LD50):** >2000 mg/kg (Rat)
  - **Acute Toxicity (Inhalation LC50):** >5 mg/L (Rat, 4h)
  - **Skin Sensitization:** May cause skin sensitization
  - **Eye Irritation:** Causes moderate eye irritation
  - **Carcinogenicity:** Suspected carcinogen (H351 classification)
  - **Mutagenicity:** No evidence of mutagenic effects
  - **Reproductive Toxicity:** No significant effects reported
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### 12. Ecological Information

- **Ecotoxicity:**
  - Toxic to aquatic life with long-lasting effects
  - LC50 (Fish, 96h): 4.4 mg/L
  - EC50 (Daphnia, 48h): 2.1 mg/L
  - EC50 (Algae, 72h): 3.8 mg/L

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- **Persistence & Degradability:** Moderately persistent in soil
  - **Bioaccumulation:** Low potential for bioaccumulation
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## 13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, state, and national regulations. Do not release into the environment.
  - **Container Disposal:** Do not reuse empty containers. Follow proper hazardous waste disposal methods.
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## 14. Transport Information

- **UN Number:** UN3077
  - **Proper Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S. (Tebuconazole)
  - **Hazard Class:** 9 (Miscellaneous Dangerous Goods)
  - **Packing Group:** III
  - **Marine Pollutant:** Yes
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## 15. Regulatory Information

- **U.S. EPA Status:** Registered under FIFRA
  - **EU Classification:** Hazardous according to Regulation (EC) No 1272/2008
  - **TSCA:** Not listed
  - **WHMIS Classification (Canada):** Class D-2B (Toxic Material)
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## 16. Other Information

- **Disclaimer:** The information provided in this MSDS is believed to be accurate based on current knowledge. However, no warranty, express or implied, is given regarding the accuracy or completeness of this information. Users are responsible for ensuring safe handling and compliance with applicable regulations.