

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

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SAFETY DATA SHEET
CHLOROTHALONIL TECHNICAL

1. Identification

- **Product Name:** Chlorothalonil Technical
- **CAS Number:** 1897-45-6
- **Use:** Agricultural fungicide
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **GHS Classification:**
 - Acute Inhalation Toxicity: Category 2
 - Eye Damage: Category 1
 - Skin Sensitization: Category 1
 - Carcinogenicity: Category 2
 - STOT (single): Category 3
 - Aquatic Toxicity (Acute & Chronic): Category 1
- **Signal Word:** Danger
- **Hazard Statements:**
 - H330: Fatal if inhaled
 - H318: Causes serious eye damage
 - H317: May cause an allergic skin reaction
 - H351: Suspected of causing cancer
 - H335: May cause respiratory irritation
 - H400 + H410: Very toxic to aquatic life with long-lasting effects

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3. Composition/Information on Ingredients

- **Chemical Name:** Chlorothalonil
- **CAS Number:** 1897-45-6
- **Purity:** $\geq 95\%$ (Technical Grade)
- **Synonyms:** Tetrachloroisophthalonitrile

4. First-Aid Measures

- **Inhalation:** Move to fresh air immediately. Seek emergency medical help.
- **Skin Contact:** Remove contaminated clothing. Wash thoroughly with soap and water.
- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical attention.
- **Ingestion:** Rinse mouth. Do **not** induce vomiting. Call a poison center or physician.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Foam, dry chemical, CO₂, or water spray
- **Hazardous Combustion Products:** Hydrogen chloride, CO, CO₂, nitrogen oxides
- **Special Protective Equipment:** Wear full protective gear and self-contained breathing apparatus

6. Accidental Release Measures

- **Personal Precautions:** Use PPE including gloves, goggles, and respirator
 - **Environmental Precautions:** Prevent spill from entering drains or waterways
 - **Spill Cleanup:** Absorb with inert material (sand, earth). Place in a chemical waste container
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7. Handling and Storage

- **Handling:** Avoid dust formation. Use with adequate ventilation. Do not breathe vapors/dust.
 - **Storage:** Keep container tightly closed in a cool, dry, well-ventilated area. Store away from food.
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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation recommended
 - **PPE:**
 - **Eye:** Safety goggles
 - **Skin:** Impervious gloves and full body covering
 - **Respiratory:** Approved respirator if exposure exceeds limits
 - **Hygiene:** Wash hands thoroughly after handling
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9. Physical and Chemical Properties

- **Appearance:** White to off-white crystalline powder
 - **Odor:** Slight pungent odor
 - **Melting Point:** Decomposes at ~250°C
 - **Boiling Point:** Not applicable
 - **Water Solubility:** Very low (~0.6 mg/L at 25°C)
 - **Log Kow:** 2.9
 - **Vapor Pressure:** Very low
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10. Stability and Reactivity

- **Reactivity:** Not reactive under normal conditions
- **Chemical Stability:** Stable under storage conditions
- **Incompatibles:** Strong oxidizing agents

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- **Hazardous Decomposition:** Produces toxic gases on combustion
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11. Toxicological Information

- **Oral LD₅₀ (rat):** >10,000 mg/kg
 - **Dermal LD₅₀ (rat):** >20,000 mg/kg
 - **Inhalation LC₅₀ (rat, 4h):** ~0.1 mg/L
 - **Irritation:** Eye—severe; Skin—mild
 - **Sensitization:** May cause skin sensitization
 - **Carcinogenicity:** IARC Group 2B—Possibly carcinogenic to humans
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12. Ecological Information

- **Acute Toxicity:**
 - **Fish (LC₅₀):** 0.012 mg/L
 - **Daphnia (EC₅₀):** 0.034 mg/L
 - **Algae (EC₅₀):** 0.0068 mg/L
 - **Environmental Fate:** Persistent, not readily biodegradable
 - **Bioaccumulative Potential:** Low to moderate
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13. Disposal Considerations

- **Waste Treatment:** Dispose of in accordance with local, regional, national regulations
 - **Packaging Disposal:** Triple rinse, puncture, and dispose as per hazardous waste protocols
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14. Transport Information

- **UN Number:** UN 3077
- **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s. (Chlorothalonil)

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- **Class:** 9
- **Packing Group:** III
- **Marine Pollutant:** Yes

15. Regulatory Information

- **TSCA/REACH:** Listed
- **IARC:** Group 2B (possible human carcinogen)
- **FIFRA Status:** Registered pesticide in several regions
- **Label Elements:** GHS signal word, hazard pictograms, and hazard statements

16. Other Information

- **NFPA Ratings:**
 - Health: 3
 - Flammability: 1
 - Reactivity: 0