

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
Clothianidin 50 WG

1. Identification of the Substance/Mixture and Company

- **Product Name:** Clothianidin 50 WG
- **Chemical Name:** (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine
- **CAS Number:** 210880-92-5
- **EC Number:** Not applicable
- **Use:** Systemic insecticide (Agricultural use only, not for public use)
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazards Identification

- **Signal Word:** ⚠ Warning
- **Hazard Classification (Regulation (EC) No 1272/2008):**
 - Acute Oral Toxicity (Category 4) – H302: Harmful if swallowed
 - Skin Sensitization (Category 1B) – H317: May cause allergic skin reaction
 - Aquatic Acute Toxicity (Category 1) – H400: Very toxic to aquatic life
 - Aquatic Chronic Toxicity (Category 1) – H410: Very toxic to aquatic life with long-lasting effects
- **Precautionary Statements:**
 - **P301 + P312:** If swallowed, call a poison center/doctor if you feel unwell.
 - **P363:** Wash contaminated clothing before re use.
 - **P302 + P352:** If on skin, wash with plenty of water.
 - **P391:** Collect spillage.
 - **P501:** Dispose of contents/container in accordance with local regulations.

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



- **Other Safety Warnings:**

- **SP1:** Do not contaminate water with the product or its container.
- **SPe3:** Maintain an unsprayed buffer zone to protect aquatic life.

3. Composition / Information on Ingredients

Component	CAS Number	Percentage (w/w)
Clothianidin	210880-92-5	50.00%
Calcinated diatomaceous earth	91053-39-3	≥10.00%
Sulfonic acids, alkane hydroxy sodium salts	68937-98-4	≥10.00%

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Remove contaminated clothing and wash skin with water.
- **Eye Contact:** Rinse eyes with water for **at least 15 minutes** while holding eyelids open. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. **Do not induce vomiting.** Seek medical advice immediately.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Dry chemical powder, carbon dioxide, foam.
 - **Special Fire Hazards:** May emit toxic fumes (**HCl, HCN, CO, NO_x**).
 - **Protective Equipment:** Self-contained breathing apparatus (SCBA) and protective clothing.
-

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



6. Accidental Release Measures

- **Personal Precautions:** Avoid breathing dust. Wear gloves, protective clothing, and eye protection.
 - **Environmental Precautions:** Do not allow the product to enter water sources or drains.
 - **Cleanup Methods:**
 - Sweep up and place in a **sealed container**.
 - Contaminated soil should be **dug up and placed in a drum for disposal**.
-

7. Handling and Storage

- **Handling Precautions:** Avoid dust formation. Ensure adequate ventilation.
 - **Storage Conditions:**
 - Store in a **dry, well-ventilated** place.
 - Keep away from **food, feed, and beverages**.
 - Do not mix with **water** except during preparation for use.
-

8. Exposure Controls / Personal Protection

- **Respiratory Protection:** Dust mask if dust formation occurs.
 - **Hand Protection:** Nitrile gloves.
 - **Eye Protection:** Safety goggles or face shield.
 - **Skin Protection:** Protective clothing.
-

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



9. Physical and Chemical Properties

- **Appearance:** Solid, light tan granules
 - **Odor:** Odorless
 - **pH (1% solution):** 7 – 9
 - **Solubility in Water:** Dispersible (Clothianidin solubility: **0.327 g/L at 20°C**)
 - **Bulk Density:** **0.5 g/ml**
 - **Autoignition Temperature:** **208°C**
 - **Decomposition Temperature:** **400°C**
 - **Flammability:** Not highly flammable
-

10. Stability and Reactivity

- **Stability:** Stable for **2 years** under recommended storage conditions.
 - **Hazardous Decomposition Products:** **HCl, HCN, CO, NO_x**
-

11. Toxicological Information

- **Oral LD₅₀ (Rat):** **1628 mg/kg (female), >1710 mg/kg (male)**
 - **Dermal LD₅₀ (Rat):** **>2000 mg/kg**
 - **Inhalation LC₅₀ (Rat, 4h):** **>5.66 mg/L**
 - **Skin Irritation:** Not irritating
 - **Eye Irritation:** Mildly irritating
 - **Sensitization:** Sensitizer
-

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



12. Ecological Information

- **Fish Toxicity (96h-LC50, Rainbow Trout): 6.78 mg/L**
 - **Daphnia Toxicity (48h-EC50, Water Flea): 28 mg/L**
 - **Bee Toxicity (48h-LD50, Honeybee):**
 - **Oral: 0.0018 µg/bee**
 - **Contact: 0.176 µg/bee**
 - **Persistence & Biodegradability: Not readily biodegradable**
 - **Bioaccumulation Potential: Log Pow = 0.7 (low bioaccumulation)**
 - **Soil Mobility: Medium to high mobility**
-

13. Disposal Considerations

- **Waste Disposal:** Dispose of according to local regulations.
 - **Container Disposal:** Do **not** reuse. Dispose at an **authorized facility**.
-

14. Transport Information

Transport Mode **NA**

UN Number: **NA**

Proper Shipping Name: **NA**

Class: **NA**

Packing Group: **NA**

Marine Pollutant: **NA**

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



15. Regulatory Information

- **Safety, Health & Environmental Regulations:** No specific regulation.
 - **Chemical Safety Assessment:** Not required.
-

16. Other Information

- **Hazard Statements:**
 - **H302:** Harmful if swallowed.
 - **H317:** May cause allergic skin reaction.
 - **H400:** Very toxic to aquatic life.
 - **H410:** Very toxic to aquatic life with long-lasting effects.
- **Manufacturer Disclaimer:** Information is provided based on current knowledge for safety compliance.