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U21009KA2023PTC179006
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SAFETY DATA SHEET
Clothianidin Technical

1. Identification of the Substance/Mixture and Company

- **Product Name:** Clothianidin Technical
- **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

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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.

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

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3. Composition / Information on Ingredients

Component	CAS Number	Percentage (w/w)
Clothianidin Technical	210880-92-5	96%

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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.

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5. Fire-Fighting Measures

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

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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**.

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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.

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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.

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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

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10. Stability and Reactivity

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

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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

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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

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13. Disposal Considerations

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

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14. Transport Information

Transport Mode	**NA**
UN Number:	**NA**
Proper Shipping Name:	NA
Class:	**NA**
Packing Group:	**NA**
Marine Pollutant:	**NA**

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15. Regulatory Information

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

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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.