

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

Diafenthiuron 50% WP

1. Chemical Product and Company Identification

- **Product Name:** Diafenthiuron 50% WP
- **Chemical Name:** 1-tert-butyl-3-(2,6-diisopropyl-4-phenoxyphenyl) thiourea
- **CAS Number:** 80060-09-9
- **Use:** Insecticide
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **Priority Identifier:** ⚠ Warning
- **Hazard Statements:**
 - Harmful if swallowed.
 - May cause eye and skin irritation.
 - Prolonged exposure may cause nausea, dizziness, and respiratory tract irritation.
- **Symptoms of Exposure:**
 - **Acute:** Salivation, sweating, fatigue, weakness, nausea, headache, dizziness.
 - **Chronic:** Conjunctivitis, photophobia, and blurred vision.

3. Composition / Information on Ingredients

Component	CAS Number	Concentration (%)
Diafenthiuron	80060-09-9	50.00%
Inert Ingredients	N/A	Q.S.

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4. First Aid Measures

- **Swallowed:**
 - **Do not induce vomiting** unless directed by a poison control center or doctor.
 - **Sip water if conscious**, and seek **immediate medical help**.
 - **Skin Contact:**
 - Remove contaminated clothing and **rinse with water for 15-20 minutes**.
 - **Eye Contact:**
 - Rinse eyes with water for **15-20 minutes**, remove contact lenses after 5 minutes.
 - **Inhalation:**
 - Move the person to **fresh air**, provide artificial respiration if necessary.
 - **Call a doctor immediately**.
 - **Physician Note:** **No specific antidote**, treat symptomatically.
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5. Fire-Fighting Measures

- **Flash Point:** N/A
 - **Extinguishing Media:** **Foam, dry chemical, water spray**.
 - **Fire Hazards:**
 - Can **release toxic gases** upon decomposition.
 - **Firefighting Equipment:**
 - Use **SCBA (Self-Contained Breathing Apparatus)** and full protective gear.
 - Prevent contaminated water from **entering drains or waterways**.
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6. Accidental Release Measures

- **Personal Precautions:**
 - Wear **protective gloves, goggles, and clothing.**
 - Avoid **dust formation.**
 - **Environmental Precautions:**
 - **Do NOT flush into water bodies or drains.**
 - If spillage reaches water, **notify authorities immediately.**
 - **Cleanup Procedure:**
 - Contain spill, **use a vacuum cleaner or wet-brushing** to collect material.
 - **Avoid creating dust clouds.**
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7. Handling and Storage

- **Handling Precautions:**
 - Use in **well-ventilated areas.**
 - **Wash hands after handling,** avoid direct contact.
 - **Storage Conditions:**
 - Store in a **cool, dry, well-ventilated area.**
 - **Keep away from food, beverages, and tobacco products.**
 - **Do NOT store in food or drink containers.**
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8. Exposure Controls / Personal Protection

- **Eye Protection:** Safety goggles or face shield.
- **Skin Protection:**
 - Chemical-resistant **gloves, coveralls, socks, and footwear.**
- **Inhalation Protection:**

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- Use in **well-ventilated areas**.
- If ventilation is poor, use **approved respirators**.

9. Physical and Chemical Properties

Property	Value
Appearance	White powder
Odor	NDA
pH (1% in Water)	5 - 9
Melting Point	146-147°C
Boiling Point	Not applicable
Flash Point	Not applicable
Evaporation Rate	No data
Flammability	Not flammable
Vapor Pressure	2.0×10^{-3} mmHg at 24°C
Bulk Density	0.15 – 0.30 g/mL
Solubility in Water	Soluble
Partition Coefficient (Log Pow)	5.76 (25°C)

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
- **Hazardous Reactions:** None expected under normal conditions.
- **Decomposition Products:**
 - Emits **noxious gases** when exposed to high temperatures.

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- **Sulfur oxides, nitrogen oxides, phosphorus oxides.**

11. Toxicological Information

Toxicity Parameter	Result
Oral LD50 (Rat, Male)	625 mg/kg
Oral LD50 (Rat, Female)	1230 mg/kg
Dermal LD50 (Rabbit)	>2000 mg/kg
Skin Irritation	Irritant
Eye Irritation	Irritant

12. Ecological Information

- **Highly toxic to aquatic life.**
- **Do NOT allow product to enter water bodies.**

13. Disposal Considerations

- **Do NOT reuse containers.**
- **Dispose of waste as per local regulations.**
- **Only licensed facilities should handle waste.**

14. Transport Information

Transport Mode	NA
UN Number	NA
Hazard Class	NA

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Transport Mode **NA**

Packing Group **NA**

Marine Pollutant **NA**

Proper Shipping Name **NA**

15. Regulatory Information

- **Risk Phrases (R-phrases):**
 - **R22:** Harmful if swallowed.
 - **R51/53:** Toxic to aquatic organisms.
- **Safety Phrases (S-phrases):**
 - **S2:** Keep out of reach of children.
 - **S24/25:** Avoid skin and eye contact.
 - **S36/37:** Wear protective clothing and gloves.
 - **S57:** Use containment to prevent environmental contamination.

16. Other Information

- **For safe use, refer to product label instructions.**
- **This information is accurate to the best of the manufacturer's knowledge.**
- **No liability is assumed for misuse or improper handling.**