

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

Metribuzin 70% WP

1. IDENTIFICATION OF COMPANY & PRODUCT

- **Product Name:** Metribuzin 70% WP
- **Chemical Name:** 4-amino-6-tert-butyl-4,5-dihydro-3-methylthio-1,2,4-triazin-5-one
- **Use:** Herbicide
- **Molecular Formula:** C₈H₁₄N₄OS
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Content (W/W%)
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Metribuzin	21087-64-9	70.00%
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Alkyl aryl sulfonate	91078-64-7	1.00 - 5.00%
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Other ingredients	-	Q.S.
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3. HEALTH HAZARDS IDENTIFICATION

- **Acute Effects:**
 - **Swallowed:** Harmful if ingested.
 - **Eye Contact:** May cause mild irritation.
 - **Skin Contact:** May cause mild irritation.
 - **Inhalation:** No significant health problems expected.
- **Effect on Exposure:**
 - **Acute:** Excessive salivation, sweating, fatigue, weakness, nausea, headache, dizziness, respiratory tract irritation.

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- **Chronic:** Similar to acute symptoms, with conjunctivitis, photophobia, and blurred vision.
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4. FIRST AID MEASURES

- **Emergency Treatment:**
 - **Swallowed:** If more than 15 minutes from a hospital, induce vomiting with **Ipecac Syrup APF**.
 - **Eyes:** Wash with running water. If redness or watering persists, seek medical attention.
 - **Skin:** Wash thoroughly with soap and water.
 - **Inhalation:** Remove to fresh air; observe for symptoms.
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5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:**
 - Water spray, alcohol-resistant foam, dry chemical, carbon dioxide.
 - **Do Not Use:** High-volume water jets.
 - **Hazardous Decomposition Products:**
 - Carbon monoxide (CO), nitrogen oxides (NO_x), hydrogen cyanide, sulfur oxides.
 - **Protective Equipment:**
 - Self-contained breathing apparatus (SCBA).
 - **Firefighting Precautions:**
 - Contain fire-fighting runoff to prevent contamination of water bodies.
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:**
 - Avoid contact with spilled product.
 - Remove ignition sources.
 - Use protective equipment.
 - **Environmental Precautions:**
 - Prevent contamination of surface water and groundwater.
 - **Cleanup Methods:**
 - Use mechanical handling equipment.
 - Dispose of contaminated materials properly.
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7. HANDLING AND STORAGE

- **Handling:**
 - Use with **proper ventilation**.
 - Avoid heat, ignition sources, and dust formation.
 - **Storage:**
 - Keep containers **tightly closed**, in a **dry, cool, and well-ventilated place**.
 - Store in **original containers**.
 - Keep away from food, drinks, and animal feed.
 - **Storage Temperature:** -10°C to 40°C.
 - **Packaging Material:**
 - **Polypropylene (PP) / Polyethylene (PE)** composite film.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Exposure Limits:**
 - **Metribuzin TWA:** 5 mg/m³ (8-hour working day).
 - **ADI (Acceptable Daily Intake):** 0.02 mg/kg/day.
- **Engineering Controls:**
 - Use **local exhaust ventilation** to maintain air quality.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use a **mask** in dusty environments.
 - **Gloves:** Protective gloves recommended.
 - **Eye Protection:** Safety glasses.
 - **Clothing:** Clean overalls or protective clothing.
 - **Hygiene:** Wash hands before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Powder
 - **Odor:** Characteristic odor
 - **Melting Point:** No specific data
 - **Boiling Point:** Expected to decompose before boiling
 - **Volatile Content:** Low at 100°C
 - **Flash Point:** Not flammable
 - **Solubility in Water:** Dispersible
 - **Corrosiveness:** Not corrosive
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10. STABILITY AND REACTIVITY

- **Stability:**
 - Stable under normal storage conditions.
 - **Hazardous Decomposition:**
 - Carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides.
 - **Materials to Avoid:**
 - Strong oxidizers.
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11. TOXICOLOGICAL INFORMATION

- **Acute Oral Toxicity (Rat):** LD50 = 7095.56 mg/kg
 - **Skin Irritation:** Non-irritant
 - **Eye Irritation:** Non-irritant
 - **Skin Sensitization:** Non-sensitizing
 - **Acute Dermal Toxicity:** >2000 mg/kg
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12. ECOLOGICAL INFORMATION

- **Toxicity to Birds:**
 - Mallard Duck: LD50 = 460 - 680 mg/L
 - **Toxicity to Fish:**
 - Bluegill Sunfish: LC50 (96h) = 80 ppm
 - Rainbow Trout: LC50 (96h) = 0.39 ppm
 - **Toxicity to Bees:**
 - Non-toxic to honeybees.
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13. DISPOSAL CONSIDERATIONS

- **Waste Disposal:**
 - Dispose of product **according to local regulations.**
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14. TRANSPORT INFORMATION

- **UN Number:** 3077
 - **Class:** 9 (Environmentally Hazardous Substance)
 - **Packing Group:** III
 - **Hazard Label:** 9
 - **Marine Pollutant:** Yes
 - **Shipping Descriptions:**
 - **ADR/RID/ADNR:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Metribuzin mixture).
 - **IMDG:** F-A, S-F (Marine Pollutant).
 - **IATA:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
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15. REGULATORY INFORMATION

- **Classification (EC Directive 1999/45/EC):**
 - **Xn:** Harmful
 - **N:** Dangerous for the environment
- **Risk Phrases (R-phrases):**
 - **R22:** Harmful if swallowed.
 - **R50/53:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety Phrases (S-phrases):**
 - **S35:** Dispose of material and container safely.

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- S57: Use an appropriate container to prevent contamination.
 - **WHO Classification: III (Slightly hazardous)**
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16. OTHER INFORMATION

- **Compliance:**
 - The information is based on **Regulation (EC) 1907/2006**.
 - Users should **comply with all local regulations**.
- **User Responsibility:**
 - The manufacturer does not **guarantee absolute accuracy**.
 - Users must ensure **proper handling and disposal**.