

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

Metribuzin Technical

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product Name:** Metribuzin Technical
- **IUPAC Name:** 4-amino-6-tert-butyl-4,5-dihydro-3-methylthio-1,2,4-triazin-5-one
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. HAZARDS IDENTIFICATION

2.1 Classification (Regulation (EC) No 1272/2008)

- **Acute Toxicity (Oral, Category 4)** – H302
- **Acute Toxicity (Inhalation, Category 3)** – H331
- **Acute Aquatic Toxicity (Category 1)** – H400
- **Chronic Aquatic Toxicity (Category 1)** – H410

2.2 Label Elements

- **Signal Word:** Danger
- **Hazard Statements:**
 - **H302:** Harmful if swallowed.
 - **H331:** Toxic if inhaled.
 - **H410:** Very toxic to aquatic life with long-lasting effects.
- **Precautionary Statements:**
 - **P261:** Avoid breathing dust.
 - **P273:** Avoid release to the environment.
 - **P311:** Call a poison center or doctor/physician.
 - **P501:** Dispose of contents/container to an approved waste disposal plant.

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2.3 Other Hazards

- Not considered persistent, bioaccumulative, or toxic (PBT) or very persistent and very bioaccumulative (vPvB).

3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Chemical Formula:** $C_8H_{14}N_4OS$
- **Molecular Weight:** 214.29 g/mol
- **CAS Number:** 21087-64-9
- **EC Number:** 244-209-7
- **Index Number:** 606-034-00-8
- **Composition:**
 - **Metribuzin (95%)**
 - Classified as **Acute Toxicity 4, Acute Toxicity 3, Aquatic Acute 1, Aquatic Chronic 1 (H302, H331, H410)**

4. FIRST AID MEASURES

- **General Advice:** Consult a physician and show this safety data sheet.
 - **Inhalation:** Move the person to fresh air. If not breathing, provide artificial respiration. Seek medical advice.
 - **Skin Contact:** Wash with soap and water; seek medical attention.
 - **Eye Contact:** Flush with water.
 - **Ingestion:** Do not give anything by mouth to an unconscious person. Rinse mouth with water and seek medical advice.
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5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray, alcohol-resistant foam, dry chemical, or CO₂.
 - **Special Hazards:** May release carbon oxides, nitrogen oxides (NO_x), and sulfur oxides.
 - **Firefighting Instructions:** Wear self-contained breathing apparatus.
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Protection:**
 - Wear respiratory protection.
 - Avoid dust formation and inhalation.
 - Ensure proper ventilation.
 - **Environmental Precautions:**
 - Prevent leakage or spillage into drains or water sources.
 - **Cleanup:**
 - Use absorbent material, sweep up, and place in a closed container for disposal.
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7. HANDLING AND STORAGE

- **Handling Precautions:**
 - Avoid skin and eye contact.
 - Use local exhaust ventilation.
 - **Storage Conditions:**
 - Store in a cool, dry, and well-ventilated place.
 - Keep the container tightly closed.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Engineering Controls:**
 - Avoid contact with skin, eyes, and clothing.
 - Wash hands before breaks and after handling.
 - **Personal Protective Equipment (PPE):**
 - **Eye Protection:** Safety glasses or face shield.
 - **Skin Protection:** Gloves and protective clothing.
 - **Respiratory Protection:** N99 (US) or P2 (EU) respirator if airborne exposure is likely.
 - **Environmental Protection:** Prevent entry into drains.
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9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** White to off-white powder/solid
 - **Odor:** Weak characteristic odor
 - **Melting Point:** 126°C
 - **Flash Point:** $\geq 189^{\circ}\text{C}$
 - **Vapor Pressure:** 0.058 mPa (20°C)
 - **Density:** 1.26 g/cm³ at 20°C
 - **Solubility:**
 - Water: 1.05 g/L
 - Benzene: 220 g/L
 - Acetone: 250 g/L
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10. STABILITY AND REACTIVITY

- **Reactivity:** No data available.
 - **Stability:** Stable under recommended storage conditions.
 - **Incompatibility:** Strong oxidizing agents.
 - **Decomposition Products:** No data available.
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11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:**
 - **Oral LD50 (Rat):** 1,100 mg/kg
 - **Inhalation LC50 (Rat, 4h):** >860 mg/m³
 - **Dermal LD50 (Rabbit):** >20,000 mg/kg
 - **Carcinogenicity:** No evidence found.
 - **Reproductive Toxicity:** Effects on embryo or fetus observed in rats.
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12. ECOLOGICAL INFORMATION

- **Toxicity to Fish:** LC50 (Rainbow Trout): 42 mg/L (96h)
 - **Toxicity to Daphnia:** EC50 (Water Flea): 4.18 mg/L (48h)
 - **Toxicity to Algae:** LOEC (Pseudokirchneriella subcapitata): 0.038 mg/L (96h)
 - **Bioaccumulation:** BCF < 20
 - **PBT and vPvB Assessment:** Not classified as persistent, bioaccumulative, or toxic.
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13. DISPOSAL CONSIDERATIONS

- **Waste Treatment:**
 - Offer surplus and non-recyclable waste to a licensed disposal company.
 - Use incineration with afterburner and scrubber.
 - **Contaminated Packaging:** Dispose of in the same manner as unused product.
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14. TRANSPORT INFORMATION

- **UN Number:** 3077
 - **Shipping Name:** Environmentally Hazardous Substance, Solid, N.O.S. (Metribuzin)
 - **Transport Hazard Class:** 9
 - **Packing Group:** III
 - **Environmental Hazards:** Yes (Marine Pollutant)
 - **Special Precautions:** Requires **EHS-Mark** for packaging.
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15. REGULATORY INFORMATION

- Complies with **Regulation (EC) No. 1907/2006**.
 - No specific safety assessment conducted.
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16. OTHER INFORMATION

- **Disclaimer:** The manufacturer does not guarantee the fitness of this information for any specific purpose.
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