

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
Metsulfuron-Methyl 20% WG

1. IDENTIFICATION OF COMPANY & PRODUCT

- **Product Name:** Metsulfuron-Methyl 20% WG
- **Chemical Name:** Methyl 2-[3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl) ureidosulphonyl] benzoate
- **Use:** Herbicide
- **Molecular Formula:** $C_{14}H_{15}N_5O_6S$
- **Manufacturer:** Cocreate Global Technologies Private Limited

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration
Metsulfuron-methyl	74223-64-6	20%
Fumed silica, crystalline-free	112945-52-5	3%
Other Ingredients	-	77%

3. HEALTH HAZARDS IDENTIFICATION

- **Risks:**
 - Very toxic to aquatic organisms.
 - May cause long-term adverse effects in the aquatic environment.
- **Safety Data:**
 - Use an appropriate container to prevent contamination.
 - Dispose of material and container as hazardous waste.

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4. FIRST AID MEASURES

- **Signs & Symptoms:**
 - May cause irritation.
 - Poisoning is unlikely unless large quantities are ingested.
 - Sulfonylurea herbicides may cause lethargy, confusion, dizziness, seizures, and coma when ingested.
 - **First Aid:**
 - **Inhalation:** Remove to fresh air immediately. Seek medical attention if symptoms develop.
 - **Ingestion:** Do not induce vomiting. Drink milk or water. Seek medical attention.
 - **Eye Contact:** Flush eyes with water; remove contact lenses; seek medical advice if irritation persists.
 - **Skin Contact:** Wash skin thoroughly with soap and water; remove contaminated clothing. Seek medical advice if irritation persists.
 - **Note to Physician:**
 - No specific antidote.
 - Treat supportively and symptomatically.
 - Administration of activated charcoal can be considered.
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5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:**
 - Small fires: Dry chemical or carbon dioxide.
 - Large fires: Water spray or foam.
- **Special Firefighting Procedures:**
 - Use water spray to cool fire-exposed containers.
 - Firefighters should wear self-contained breathing apparatus (SCBA) and protective clothing.

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- Approach fire from upwind to avoid hazardous vapors.
 - **Hazardous Decomposition Products:**
 - Nitrogen oxides, sulfur dioxide, carbon monoxide, and carbon dioxide.
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6. ACCIDENTAL RELEASE MEASURES

- **Personal Protection:**
 - Wear safety glasses, protective gloves, chemical-resistant clothing, and boots.
 - **Spill Containment & Cleanup:**
 - Stop the spill source if safe.
 - Prevent contamination of soil, water, or drains.
 - Avoid creating airborne dust.
 - **Spills on the Floor:** Sweep up immediately, collect in suitable containers, rinse with detergent and water.
 - **Spills in Water:** Contain as much as possible, remove contaminated water for treatment/disposal.
 - **Large Soil Spills:** Dig up contaminated soil and transfer to suitable containers.
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7. HANDLING AND STORAGE

- **Handling:**
 - Avoid all personal contact.
 - Use closed systems or local exhaust ventilation.
 - Refer to official safety labels and guidelines before use.
- **Storage:**
 - Store in closed, labeled containers (non-metal).
 - Avoid contamination of food, water, or feed.
- **Fire & Explosion Precautions:**

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- Organic powders can form explosive mixtures with air.
- Avoid dust formation and static discharge.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Exposure Limits:**
 - No established limits for Metsulfuron-methyl.
 - Recommended **10 mg/m³ (8-hour TWA)** by the manufacturer.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Required if heavy dust or mist is present.
 - **Gloves:** Chemical-resistant (barrier laminate, butyl rubber, nitrile rubber).
 - **Eye Protection:** Safety glasses; emergency eyewash station should be available.
 - **Body Protection:** Coveralls, long-sleeved shirt, long pants, shoes plus socks.
- **Hygiene Practices:**
 - Wash hands thoroughly after handling.
 - Do not wear contaminated clothing.
 - Shower after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Physical State:** White to off-white powder
- **Color:** Light brown
- **Odor:** Faint, ester-like
- **Solubility in Water:** Dispersible
- **pH (1% dispersion in water):** 3 - 7 (typically 4)
- **Flash Point:** Not flammable
- **Auto-Ignition Temperature:** Not available

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- **Explosivity:** Not explosive
 - **Oxidizing Properties:** Not oxidizing
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10. STABILITY AND REACTIVITY

- **Thermal Stability:** Stable at ambient temperatures.
 - **Materials to Avoid:** Strong oxidizers and alkalis.
 - **Hazardous Decomposition Products:** Nitrogen oxides, sulfur dioxide, carbon monoxide, carbon dioxide.
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11. TOXICOLOGICAL INFORMATION

- **Acute Toxicity:**
 - **Oral LD50 (Rat):** >5000 mg/kg
 - **Dermal LD50 (Rat):** >2000 mg/kg
 - **Inhalation LC50 (Rat, 4h):** >5 mg/L
 - **Irritancy:** Mildly to moderately irritating to skin and eyes.
 - **Sensitization:** Not a skin sensitizer.
 - **Carcinogenicity:** No evidence of carcinogenic effects.
 - **Reproductive & Developmental Effects:** No teratogenic or reproductive toxicity.
 - **Mutagenicity:** Not mutagenic.
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12. ECOLOGICAL INFORMATION

- **Toxicity:**
 - **Fish (Rainbow Trout):** LC50 (96h) > 150 mg/L
 - **Daphnia (Water Flea):** LC50 (48h) > 150 mg/L
 - **Algae (Green Algae):** IC50 (72h) = 0.045 mg/L

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- **Aquatic Plants (Duckweed):** EC50 = 0.36 µg/L
 - **Earthworms:** LC50 > 1000 mg/kg dry soil
 - **Birds (Mallard Duck):** LD50 > 2510 mg/kg
 - **Bees (Oral LD50):** > 44.3 µg/bee
 - **Mobility:** Potential for groundwater leaching.
 - **Persistence:** Moderately persistent; degrades over weeks to months.
 - **Bioaccumulation:** Not expected (BCF < 1).
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13. DISPOSAL CONSIDERATIONS

- **Waste Disposal:**
 - Incinerate with flue gas scrubbing or send to a licensed chemical destruction plant.
 - Do not contaminate water, food, or feed.
 - **Container Disposal:**
 - Triple rinse and recycle.
 - Puncture and dispose of in a landfill.
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14. TRANSPORT INFORMATION

- **UN Number:** 3077
 - **Class:** 9
 - **Packing Group:** III
 - **Marine Pollutant:** Yes
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15. REGULATORY INFORMATION

- **Hazard Symbol:** R51/53 (Toxic to aquatic organisms).