

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.

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SAFETY DATA SHEET
Quizalofop Ethyl Technical

1. Identification of the Substance and Supplier

- **Product Name:** Quizalofop Ethyl Technical
- **Chemical Name:** Ethyl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy]propionate
- **CAS Number:** 76578-14-8
- **EC Number:** 407-740-2
- **Molecular Formula:** C₁₉H₁₇ClN₂O₄
- **Molecular Weight:** 372.81 g/mol
- **Intended Use:** Herbicide (post-emergence, selective for grass weed control in broadleaf crops)
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazard Identification

Classification (GHS):

- Acute Toxicity (Oral): **Category 4**
- Skin Irritation: **Category 2**
- Eye Irritation: **Category 2A**
- Specific Target Organ Toxicity – Single Exposure (STOT SE): **Category 3 (Respiratory System)**
- Hazardous to the Aquatic Environment (Acute & Chronic): **Category 1**

Signal Word: Warning

Hazard Statements:

- **H302:** Harmful if swallowed.
- **H315:** Causes skin irritation.
- **H319:** Causes serious eye irritation.
- **H335:** May cause respiratory irritation.

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- **H400:** Very toxic to aquatic life.
- **H410:** Very toxic to aquatic life with long-lasting effects.

Precautionary Statements:

- **P261:** Avoid breathing dust or fumes.
- **P264:** Wash hands thoroughly after handling.
- **P270:** Do not eat, drink, or smoke when using this product.
- **P273:** Avoid release to the environment.
- **P280:** Wear protective gloves, clothing, and eye protection.
- **P301+P312:** IF SWALLOWED: Call a poison center or doctor if you feel unwell.
- **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- **P391:** Collect spillage.

3. Composition/Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
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Quizalofop Ethyl	76578-14-8	≥ 95%
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Inert Ingredients -		≤ 5%
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4. First-Aid Measures

- **Inhalation:** Move the affected person to fresh air. If breathing difficulty occurs, seek immediate medical attention.
- **Skin Contact:** Remove contaminated clothing. Wash the skin thoroughly with soap and water. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present. Seek immediate medical attention.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

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Note: Treat symptomatically and supportively.

5. Fire-Fighting Measures

- **Extinguishing Media:**
 - Suitable: Dry chemical, CO₂, alcohol-resistant foam, or water spray.
 - Unsuitable: Do not use a direct water jet as it may spread the fire.
 - **Specific Hazards:**
 - Vapors may form explosive mixtures with air.
 - Hazardous decomposition products include carbon monoxide, carbon dioxide, nitrogen oxides, and hydrogen chloride.
 - **Protective Equipment:** Firefighters should wear self-contained breathing apparatus (SCBA) and protective gear.
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6. Accidental Release Measures

- **Personal Precautions:**
 - Use protective gloves, goggles, and a respirator.
 - Avoid dust formation and inhalation.
 - **Environmental Precautions:**
 - Prevent entry into drains, sewers, or water bodies.
 - **Cleanup Methods:**
 - Absorb spill with inert material (e.g., sand or vermiculite).
 - Collect into labeled containers for proper disposal.
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7. Handling and Storage

- **Handling:**
 - Ensure proper ventilation in work areas.
 - Avoid direct contact with skin, eyes, and clothing.
 - Keep away from heat, open flames, and hot surfaces.
- **Storage:**
 - Store in a cool, dry, well-ventilated place.
 - Keep containers tightly closed.
 - Keep away from oxidizing agents and acids.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** No specific exposure limits established.
- **Engineering Controls:** Use local exhaust ventilation to minimize exposure.
- **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Approved organic vapor respirator if exposure exceeds limits.
 - **Hand Protection:** Chemical-resistant gloves (nitrile or neoprene).
 - **Eye Protection:** Safety goggles or face shield.
 - **Skin Protection:** Protective clothing to prevent prolonged exposure.

9. Physical and Chemical Properties

Property	Value
Appearance	Pale yellow liquid
Odor	Slight aromatic odor
pH	4.5 – 6.5 (1% aqueous solution)

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Property	Value
Melting Point	Not applicable
Boiling Point	180-190°C
Flash Point	74°C (Closed Cup)
Solubility in Water	0.56 mg/L at 25°C
Density	1.15 g/cm ³ at 25°C
Vapor Pressure	3.5 × 10 ⁻⁶ Pa at 25°C
Partition Coefficient (log Kow)	4.1

10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Incompatible Materials:** Strong oxidizing agents, acids, and bases.
- **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride.
- **Conditions to Avoid:** Heat, sparks, and open flames.

11. Toxicological Information

- **Acute Oral Toxicity (LD50):** 1214 mg/kg (rat)
 - **Acute Dermal Toxicity (LD50):** >5000 mg/kg (rat)
 - **Acute Inhalation Toxicity (LC50):** 2.2 mg/L (rat, 4 hours)
 - **Skin Irritation:** Causes irritation
 - **Eye Irritation:** Causes serious eye irritation
 - **Carcinogenicity:** Not classified as a carcinogen
 - **Mutagenicity:** No known mutagenic effects
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12. Ecological Information

- **Ecotoxicity:**
 - **Fish (LC50):** 0.57 mg/L (96 hours, Rainbow Trout)
 - **Daphnia (EC50):** 0.21 mg/L (48 hours)
 - **Algae (EC50):** 0.13 mg/L (72 hours)
- **Persistence and Degradability:** Moderately persistent
- **Bioaccumulative Potential:** High (log Kow = 4.1)
- **Mobility in Soil:** Low due to strong adsorption

13. Disposal Considerations

- **Waste Disposal:** Dispose of according to local, national, and international regulations.
- **Contaminated Packaging:** Dispose of as hazardous waste.

14. Transport Information

UN Number 3082

Proper Shipping Name Environmentally Hazardous Substance, Liquid, N.O.S. (Quizalofop Ethyl)

Transport Hazard Class 9 (Miscellaneous Dangerous Substances)

Packing Group III

15. Regulatory Information

- **Regulatory Status:** Complies with international chemical safety regulations.

16. Other Information

- **Disclaimer:** The information is accurate to the best of our knowledge. Always follow local regulations before handling.