

# 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

### Pyroxasulfone 85% WG

#### 1. Identification of the Substance and Supplier

- **Product Name:** Pyroxasulfone 85% WG
- **Chemical Name:** 3-[[[5-(Difluoromethoxy)-1-methyl-3-(trifluoromethyl)-1H-pyrazol-4-yl]methyl]sulfonyl]-4,5-dihydro-5,5-dimethyl-1,2-oxazole
- **CAS Number:** 447399-55-5
- **Molecular Formula:** C<sub>12</sub>H<sub>14</sub>F<sub>5</sub>N<sub>3</sub>O<sub>4</sub>S
- **Intended Use:** Pre-emergence and early post-emergence herbicide for weed control in agriculture
- **Formulation Type:** Water-Dispersible Granules (WG)
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

#### 2. Hazard Identification

- **Classification (GHS):**
  - Acute Toxicity (Oral): Category 4
  - Skin Sensitization: Category 1
  - Hazardous to the Aquatic Environment (Acute): Category 1
  - Hazardous to the Aquatic Environment (Chronic): Category 1
- **Signal Word:** Warning
- **Hazard Statements:**
  - H302: Harmful if swallowed.
  - H317: May cause an allergic skin reaction.
  - H400: Very toxic to aquatic life.
  - H410: Very toxic to aquatic life with long-lasting effects.
- **Precautionary Statements:**

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- 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 and clothing.
- P301+P312: IF SWALLOWED: Call a poison center or doctor if you feel unwell.
- P391: Collect spillage.

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### 3. Composition/Information on Ingredients

| Ingredient          | CAS Number  | Concentration (%) |
|---------------------|-------------|-------------------|
| Pyroxasulfone       | 447399-55-5 | 85%               |
| Inert Ingredients - |             | 15%               |

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### 4. First-Aid Measures

- **Inhalation:** Move the affected person to fresh air. If breathing difficulties occur, seek medical attention.
- **Skin Contact:** Remove contaminated clothing. Wash 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 medical attention if irritation occurs.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention if symptoms occur.

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### 5. Fire-Fighting Measures

- **Extinguishing Media:** Use water spray, dry chemical powder, foam, or carbon dioxide.
- **Special Hazards:** May emit toxic fumes including nitrogen oxides, sulfur oxides, carbon monoxide, and carbon dioxide upon combustion.

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- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus (SCBA) and full protective gear.
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## 6. Accidental Release Measures

- **Personal Precautions:** Wear appropriate PPE including gloves, goggles, and a respirator. Avoid dust inhalation.
  - **Environmental Precautions:** Prevent spillage from entering waterways or drains. Very toxic to aquatic life.
  - **Cleanup Methods:** Contain the spill using absorbent materials like sand or soil. Collect and place in a properly labeled container for disposal as per local regulations.
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## 7. Handling and Storage

- **Handling:** Avoid inhalation, ingestion, and skin contact. Use appropriate PPE and ensure proper ventilation.
  - **Storage:** Store in a cool, dry, and well-ventilated area. Keep away from food, beverages, and animal feed. Store in a tightly closed container away from heat and direct sunlight.
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## 8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** No specific exposure limits established.
  - **Engineering Controls:** Ensure adequate ventilation and use local exhaust systems to minimize exposure.
  - **Personal Protective Equipment (PPE):**
    - **Respiratory Protection:** Use an approved respirator if dust or fumes are generated.
    - **Hand Protection:** Chemical-resistant gloves.
    - **Eye Protection:** Safety goggles or face shield.
    - **Skin Protection:** Wear protective clothing and footwear.
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## 9. Physical and Chemical Properties

| Property                        | Value                           |
|---------------------------------|---------------------------------|
| Appearance                      | Off-white to beige granules     |
| Odor                            | Mild characteristic odor        |
| pH (1% solution)                | 6.0–8.0                         |
| Melting Point                   | 100–105°C                       |
| Boiling Point                   | Decomposes before boiling       |
| Solubility in Water             | 3.5 mg/L at 25°C                |
| Density                         | ~1.2 g/cm <sup>3</sup>          |
| Vapor Pressure                  | $1.2 \times 10^{-6}$ Pa at 25°C |
| Partition Coefficient (log Kow) | 2.3                             |

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## 10. Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions.
- **Incompatible Materials:** Strong oxidizing agents and strong acids.
- **Hazardous Decomposition Products:** Releases carbon monoxide, carbon dioxide, and nitrogen oxides upon thermal decomposition.
- **Conditions to Avoid:** Excessive heat, open flames, and direct sunlight.

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## 11. Toxicological Information

- **Acute Oral Toxicity (LD50):** >2000 mg/kg (rat)
- **Acute Dermal Toxicity (LD50):** >2000 mg/kg (rabbit)
- **Acute Inhalation Toxicity (LC50):** >1.3 mg/L (rat, 4 hours)
- **Skin Irritation:** May cause mild irritation

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- **Eye Irritation:** Slightly irritating
- **Sensitization:** May cause allergic skin reaction
- **Chronic Toxicity:** No significant effects observed in long-term studies

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## 12. Ecological Information

- **Ecotoxicity:**
  - **Fish (Rainbow Trout):** LC50 = 0.45 mg/L (96 hours)
  - **Daphnia magna:** EC50 = 0.62 mg/L (48 hours)
  - **Algae:** EC50 = 0.11 mg/L (72 hours)
- **Persistence and Degradability:** Moderately persistent in soil and water.
- **Bioaccumulative Potential:** Low (log Kow = 2.3)
- **Mobility in Soil:** Moderate due to water solubility

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## 13. Disposal Considerations

- **Waste Disposal:** Dispose of in accordance with local, national, and international regulations.
- **Contaminated Packaging:** Dispose of packaging as hazardous waste following applicable regulations.

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## 14. Transport Information

**UN Number** 3077

**Proper Shipping Name** Environmentally Hazardous Substance, Solid, N.O.S. (Pyroxasulfone)

**Transport Hazard Class** 9 (Miscellaneous dangerous substances)

**Packing Group** III

**Environmental Hazards** Marine pollutant

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### 15. Regulatory Information

- **Regulatory Status:** Complies with all relevant national and international chemical safety regulations.
- **GHS Label Elements:**
  - Hazard Pictograms:  
  - Signal Word: **Warning**
  - Risk Phrases: R43 (May cause sensitization by skin contact), R50/53 (Very toxic to aquatic organisms, may cause long-term adverse effects)
  - Safety Phrases: S36/37/39 (Wear suitable protective clothing, gloves, and eye/face protection), S61 (Avoid release into the environment)

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### 16. Other Information

- **Disclaimer:** The information provided in this document is believed to be accurate. No warranty is expressed or implied regarding its completeness or accuracy.