

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

Penoxsulam 2.67% OD

1. Identification of the Substance and Supplier

- **Product Name:** Penoxsulam 2.67% OD (Oil Dispersion)
- **Chemical Name:** 2-(2,2-difluoroethoxy)-N-(5,8-dimethoxy[1,2,4]triazolo[1,5-c]pyrimidin-2-yl)-6-(trifluoromethyl)benzenesulfonamide
- **CAS Number:** 219714-96-2
- **EC Number:** Not available
- **Molecular Formula:** C₁₆H₁₄F₅N₅O₅S
- **Intended Use:** Selective post-emergence herbicide for controlling weeds in paddy fields
- **Formulation Type:** Oil Dispersion (OD)
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **Classification (GHS):**
 - 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:**
 - 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:**
 - P261: Avoid breathing mist or vapors.

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



- P273: Avoid release into the environment.
- P280: Wear protective gloves and clothing.
- P302+P352: If on skin, wash with plenty of water and soap.
- P333+P313: If skin irritation or rash occurs, get medical advice.
- P391: Collect spillage.

3. Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Penoxsulam	219714-96-2	2.67%
Emulsifiers and Solvents -		Balance (up to 100%)

4. First-Aid Measures

- **Inhalation:** Move the affected person to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Remove contaminated clothing and wash skin thoroughly with soap and water. If skin irritation or rash develops, seek medical attention.
- **Eye Contact:** Rinse immediately with water for at least 15 minutes. Seek medical advice if irritation occurs.
- **Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek immediate medical assistance.

5. Fire-Fighting Measures

- **Extinguishing Media:** Use water spray, dry chemical powder, foam, or carbon dioxide.
 - **Special Hazards:** May produce toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides, and sulfur oxides during combustion.
 - **Protective Equipment:** Firefighters should wear full protective gear and a self-contained breathing apparatus (SCBA).
-

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



6. Accidental Release Measures

- **Personal Precautions:** Wear appropriate personal protective equipment (PPE) including gloves, goggles, and a respirator. Avoid breathing vapors.
 - **Environmental Precautions:** Prevent spillage from entering waterways, drains, or soil. Very toxic to aquatic life.
 - **Cleanup Methods:** Contain and absorb spill with inert materials such as sand or soil. Collect and place in suitable containers for disposal according to local regulations.
-

7. Handling and Storage

- **Handling:** Avoid inhalation and contact with skin and eyes. Wear protective equipment and use in a well-ventilated area.
 - **Storage:** Store in a cool, dry, and well-ventilated place. Keep away from direct sunlight, food, and animal feed. Store in original container with the lid tightly closed.
-

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** No specific exposure limits established.
 - **Engineering Controls:** Ensure proper ventilation during use.
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use a respirator if vapor exposure is likely.
 - **Hand Protection:** Chemical-resistant gloves.
 - **Eye Protection:** Safety goggles or face shield.
 - **Skin Protection:** Wear suitable protective clothing.
-

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



9. Physical and Chemical Properties

Property	Value
Appearance	Light brown liquid (oil dispersion)
Odor	Mild characteristic odor
pH (1% solution)	4.0–6.0
Melting Point	104–106°C (pure Penoxsulam)
Solubility in Water	0.52 mg/L at 25°C
Density	~1.1 g/cm ³
Vapor Pressure	4.2×10^{-5} Pa at 25°C
Partition Coefficient (log Kow)	3.5

10. Stability and Reactivity

- **Stability:** Stable under normal storage and handling conditions.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, and bases.
- **Hazardous Decomposition Products:** May release toxic gases including CO, CO₂, NO_x, and SO_x upon decomposition.
- **Conditions to Avoid:** Avoid heat, flames, and direct sunlight.

11. Toxicological Information

- **Acute Oral Toxicity (LD50):** >5000 mg/kg (rat)
- **Acute Dermal Toxicity (LD50):** >2000 mg/kg (rabbit)
- **Inhalation Toxicity:** Not classified
- **Skin Irritation:** May cause mild skin irritation
- **Eye Irritation:** Slightly irritating to eyes

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



- **Sensitization:** May cause allergic skin reactions
 - **Chronic Toxicity:** No significant effects observed in long-term studies
-

12. Ecological Information

- **Ecotoxicity:**
 - Fish (Rainbow Trout): LC50 = 0.11 mg/L (96 hours)
 - Daphnia magna: EC50 = 0.52 mg/L (48 hours)
 - Algae: EC50 = 0.002 mg/L (72 hours)
 - **Persistence and Degradability:** Moderately persistent in soil and water.
 - **Bioaccumulative Potential:** Low
 - **Mobility in Soil:** Low mobility due to high adsorption.
-

13. Disposal Considerations

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

14. Transport Information

UN Number 3082

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

Transport Hazard Class 9 (Miscellaneous dangerous substances)

Packing Group III

Environmental Hazards Marine pollutant

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



15. Regulatory Information

- **Regulatory Status:** Complies with relevant local 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 (Wear suitable protective clothing and gloves), S61 (Avoid release to the environment)

16. Other Information

- **Disclaimer:** The information provided in this document is believed to be accurate as of the date of publication. No warranty is made concerning its completeness or accuracy. Always refer to local regulations before handling or disposing of this product.