

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

Lambda-Cyhalothrin Technical

1. Product Identification

- **Product Name:** Lambda-Cyhalothrin Technical
- **Chemical Name:** (RS)- α -Cyano-3-phenoxybenzyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate
- **CAS Number:** 91465-08-6
- **Molecular Formula:** C₂₃H₁₉ClF₃NO₃
- **Molecular Weight:** 449.85 g/mol
- **Synonyms:** Karate, Warrior, ICON, Demand, Hallmark
- **Intended Use:** Broad-spectrum insecticide used for pest control in agriculture, public health, and animal health sectors
- **Supplier/Manufacturer:** Cocreate Global Technologies Private Limited

2. Hazard Identification

- **Classification (GHS):**
 - Acute Toxicity (Oral): Category 2
 - Acute Toxicity (Inhalation): Category 4
 - Skin Irritation: Category 2
 - Eye Irritation: Category 2A
 - Hazardous to the Aquatic Environment - Acute: Category 1
 - Hazardous to the Aquatic Environment - Chronic: Category 1
- **Signal Word:** Danger
- **Hazard Statements:**
 - H300: Fatal if swallowed
 - H332: Harmful if inhaled

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



- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long-lasting effects
- **Precautionary Statements:**
 - P264: Wash hands thoroughly after handling
 - P270: Do not eat, drink, or smoke while using this product
 - P273: Avoid release into the environment
 - P280: Wear protective gloves, clothing, and eye protection
 - P301+P310: IF SWALLOWED: Immediately call a poison center or doctor

3. Composition / Information on Ingredients

Component	CAS Number	Concentration
Lambda-Cyhalothrin	91465-08-6	≥ 95%
Inert Ingredients	-	≤ 5%

4. First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if breathing difficulties persist.
 - **Skin Contact:** Remove contaminated clothing and wash skin thoroughly with soap and water.
 - **Eye Contact:** Rinse immediately with water for at least 15 minutes. Seek medical attention if irritation persists.
 - **Ingestion:** Rinse mouth thoroughly with water. Do not induce vomiting. Seek immediate medical assistance.
-

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



5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical, or carbon dioxide (CO₂)
 - **Specific Hazards:** May release toxic fumes, including hydrogen chloride, hydrogen fluoride, carbon monoxide, and nitrogen oxides upon combustion
 - **Protective Equipment:** Wear self-contained breathing apparatus and full protective gear
-

6. Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment (PPE) to avoid skin and eye contact
 - **Environmental Precautions:** Prevent entry into drains, soil, and waterways; highly toxic to aquatic organisms
 - **Cleanup Methods:** Contain spillage, collect using non-sparking tools, and dispose of according to local regulations
-

7. Handling and Storage

- **Handling:** Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation. Use personal protective equipment.
 - **Storage:** Store in a cool, dry, and well-ventilated area. Keep container tightly sealed and away from sunlight, heat, food, and animal feed.
-

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Ensure proper ventilation, preferably using local exhaust systems
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use an approved respirator if exposure limits are exceeded
 - **Skin Protection:** Wear chemical-resistant gloves and protective clothing
 - **Eye Protection:** Use safety goggles or a face shield
-

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

- **Appearance:** Off-white crystalline solid
 - **Odor:** Faint chemical odor
 - **Melting Point:** 49–52°C
 - **Boiling Point:** Decomposes before boiling
 - **Solubility:** Practically insoluble in water; soluble in organic solvents (acetone, methanol)
 - **Density:** ~1.33 g/cm³
 - **pH:** 4.0–7.0 (1% solution in water)
 - **Vapor Pressure:** 1.5×10^{-9} mmHg at 20°C
-

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal storage and handling conditions
 - **Conditions to Avoid:** Exposure to heat, direct sunlight, and moisture
 - **Incompatible Materials:** Strong oxidizers and acids
 - **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides
-

11. Toxicological Information

- **Acute Toxicity:**
 - Oral LD50 (Rat): 56 mg/kg
 - Dermal LD50 (Rat): > 5000 mg/kg
 - Inhalation LC50 (Rat): 0.04 mg/L (4 hours)
- **Skin Irritation:** Causes moderate irritation
- **Eye Irritation:** Causes severe eye irritation
- **Sensitization:** May cause skin sensitization upon prolonged exposure
- **Chronic Effects:** No known carcinogenic, mutagenic, or reproductive effects in standard studies

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



12. Ecological Information

- **Aquatic Toxicity:**
 - Fish (Rainbow trout): LC50 = 0.00021 mg/L (96 hours)
 - Daphnia magna: EC50 = 0.00036 mg/L (48 hours)
 - Algae: EC50 = 0.013 mg/L (72 hours)
- **Persistence and Degradability:** Not readily biodegradable
- **Bioaccumulation Potential:** High (Log Kow = 6.9)

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
- Avoid release into the environment; do not contaminate water bodies or drains

14. Transport Information

- **UN Number:** UN 3352
- **Proper Shipping Name:** Pesticide, solid, toxic, n.o.s. (Lambda-Cyhalothrin)
- **Hazard Class:** 6.1 (Toxic substances)
- **Packing Group:** III
- **Marine Pollutant:** Yes

15. Regulatory Information

- **TSCA (USA):** Listed
- **REACH (EU):** Registered
- **FIFRA (USA):** Registered pesticide product
- **IARC Classification:** Not classified as carcinogenic

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



16. Other Information

- **Disclaimer:** This information is accurate to the best of our knowledge but does not guarantee specific properties. Users are responsible for safe handling and compliance with applicable regulations.