

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 4.9% CS

1. Identification of Company & Product

- **Product Name:** Lambda-cyhalothrin 4.9% CS
- **Chemical Name:**
 - (S)-cyano-3-phenoxybenzyl (Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate
 - (R)-cyano-3-phenoxybenzyl (Z)-(1S,3S)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate
- **Molecular Formula:** C₂₃H₁₉ClF₃NO₃
- **Use:** Insecticide
- **Manufacturer/Supplier:** Cocreate Global Technologies Private Limited

2. Composition / Information on Ingredients

Chemical Name	CAS Number	Content (% W/W)
Lambda-cyhalothrin	91465-08-6	4.9%
Solvent naphtha (petroleum), highly aromatic	64742-94-5	1-5%
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0.05-1%

3. Health Hazards Identification

- **Acute Toxicity (Oral & Inhalation):** Category 4 (H332, H302)
- **Skin Sensitization:** Category 1 (H317)
- **Acute Aquatic Toxicity:** Category 1 (H400)
- **Chronic Aquatic Toxicity:** Category 1 (H410)
- **Supplemental Information:** EUH401 - Follow safety instructions.

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



4. First Aid Measures

- **Inhalation:** Move victim to fresh air. If breathing is irregular, provide artificial respiration. Seek medical attention.
- **Skin Contact:** Wash with plenty of water. Remove contaminated clothing.
- **Eye Contact:** Rinse with water for at least 15 minutes. Remove contact lenses if applicable.
- **Ingestion:** Do not induce vomiting. Seek medical attention immediately.
- **Symptoms:** May cause paresthesia (itching, tingling, burning, numbness), pulmonary edema, or pneumonitis.

5. Fire Fighting Measures

- **Small Fires:** Use water spray, alcohol-resistant foam, dry chemical, or CO₂.
- **Large Fires:** Use alcohol-resistant foam or water spray.
- **Hazardous Combustion Products:** Produces dense black smoke with toxic fumes.
- **Protective Equipment:** Self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- **Personal Precautions:** Use protective equipment as per sections 7 and 8.
- **Environmental Precautions:** Prevent spillage into drains, waterways, or soil.
- **Cleanup Methods:** Absorb with non-combustible material (sand, earth, vermiculite), dispose of as per local regulations.

7. Handling and Storage

- **Handling:** Avoid skin and eye contact, do not eat, drink, or smoke while handling.
- **Storage:** Keep tightly closed in a cool, dry, well-ventilated place, away from food, drink, and animal feed.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation if airborne mists/vapors are generated.
- **Personal Protective Equipment (PPE):**
 - **Respiratory:** Air-purifying respirators or self-contained breathing apparatus in emergencies.

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



- **Hands:** Chemical-resistant nitrile gloves.
- **Eyes:** Safety goggles or eye protection.
- **Skin & Body:** Chemical-resistant clothing.

9. Physical and Chemical Properties

- **Physical State:** Liquid
- **Color:** Off-white
- **Odor:** Aromatic, weak
- **pH:** 4.0 – 6.5
- **Boiling Point:** 100°C
- **Flash Point:** >93°C
- **Density:** 1.028 g/cm³
- **Solubility:** Miscible in water
- **Explosivity:** Not explosive
- **Oxidizing Properties:** Not oxidizing

10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions.
- **Hazardous Reactions:** None known.
- **Decomposition Products:** Can emit toxic vapors if combusted.

11. Toxicological Information

- **Acute Oral Toxicity (LD50, Rat):**
 - Males: 612 mg/kg
 - Females: 522 mg/kg
- **Acute Dermal Toxicity (LD50, Rat):** >2,000 mg/kg
- **Acute Inhalation Toxicity (LC50, Rat, 4h):** >2.09 mg/L
- **Skin Irritation:** May cause temporary paresthesia (itching, tingling).

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



- **Eye Irritation:** Mildly irritating.
- **Sensitization:** Can cause skin sensitization in humans.
- **Mutagenicity, Carcinogenicity, Reproductive Toxicity:** No observed effects in animal studies.

12. Ecological Information

- **Toxicity to Fish:** LC50 (Carp, 96h) >12 µg/L
- **Toxicity to Daphnia (48h):** EC50 >2.6 µg/L
- **Persistence in Water:** Half-life: 7 days (not persistent)
- **Persistence in Soil:** Half-life: 56 days (not persistent)
- **Bioaccumulation:** Bioaccumulates
- **Mobility in Soil:** Immobile

13. Disposal Considerations

- **Product Disposal:** Do not dispose of in sewer, ponds, or waterways.
- **Container Disposal:** Triple rinse and dispose of as per local regulations.

14. Transport Information

- **UN Number:** 3082
- **Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Lambda-Cyhalothrin)
- **Transport Hazard Class:** 9
- **Packing Group:** III
- **Marine Pollutant:** Yes (IMDG classification)

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

- **GHS Labeling:**
 - **Signal Word:** Warning
 - **Hazard Statements:**
 - **H302 + H332:** Harmful if swallowed or inhaled.
 - **H317:** May cause allergic skin reactions.
 - **H410:** Very toxic to aquatic life.
 - **Precautionary Statements:**
 - **P102:** Keep out of reach of children.
 - **P280:** Wear protective gloves and clothing.
 - **P302 + P352:** IF ON SKIN: Wash with plenty of soap and water.
 - **P304 + P340:** IF INHALED: Move victim to fresh air.
 - **P391:** Collect spillage.
 - **P501:** Dispose of contents/container as per local regulations.

16. Other Information

- The information provided is based on the current state of knowledge and is intended for safety handling and use.
- No warranty or liability is assumed for misuse.