

Material Safety Data Sheet

Section 1 – Product Identification

Product Name:	Cyonara 9.7 Insecticide	EPA Registration #:	53883-145
Manufacturer:	Control Solutions Inc. 5903 Genoa- Red Bluff Pasadena, TX 77507 281-892-2500	EPA Establishment #:	53883-TX-002

Section 2 – Chemical Composition

Material	CAS #	% by Weight	OSHA PEL/ACGIH TLV
Lambda Cyhalothrin	91465-08-6	9.7	None Established
Inert Ingredients	N/A	90.3	None Established

Section 3 – Hazard Identification

Symptoms of Toxicity: Lambda cyhalothrin may induce neurotoxic effects including staggering gait, muscle tremors and convulsions.

Flammability: This product is not flammable.

Reactivity: Stable under normal conditions.

Section 4 – First Aid

Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Move person to fresh air. If person is not breathing, give artificial respiration, mouth to mouth if possible. Call a poison control center for further treatment advice.

Ingestion: Call poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless directed to do so by a poison control center. Do not give anything by mouth to an unconscious person.

Dermal Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center for treatment advice.

Notes/Physician's Information: You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

Section 5 – Fire and Explosion Hazards

Flash Point:	Not applicable
Extinguishing Media:	Water fog, foam, carbon dioxide, dry chemical, halogenated agents.
Special Procedures:	Self-contained breathing apparatus with full-face piece and protective clothing.
Unusual Fire Hazards:	Possible toxic smoke, vapors, fallout and runoff water can result from fires depending on extent of combustion and presence of other combustible materials. Contaminated buildings, areas, and equipment must be properly decontaminated before reuse.
Reactivity/Stability:	Stable under normal conditions. Combustion products include carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, cyanuric acid, biuret, halogen, halogen acids, and trace amounts of carbonyl halide. Hazardous polymerization will not occur.

Section 6 – Spill/Release Procedures

Absorbent:	Clay granules, sawdust, or vermiculite. Apply directly to spill and sweep into suitable container. Rinse with water and absorb in similar manner.
Containment:	Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.
Waste Disposal:	Dispose of waste and contaminated material through proper channels. An authorized hazardous waste disposal facility (TSDF) is recommended. Discarded product is not a hazardous waste under RCRA, 40 CFR 261.
Reporting:	Report all major spills and uncontrolled releases to proper local, state, and federal agencies.
Emergency Contact #:	Chemtrec: 1-800-424-9300

Section 7 – Storage and Handling Instructions

Storage Conditions:	Do not store near feed, food, or within the reach of children. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame. Keep away from oxidizing agents, alkalies, calcium hypochlorite.
Handling Instructions:	Exercise due caution to prevent damage to or leakage from the container. Workers must follow good hygiene practices to avoid accidental ingestion.
Container Disposal:	Do not reuse empty containers. Triple rinse (or equivalent), then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Section 8 – Protective Equipment/Engineering Controls

Eye Protection:	Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or a face-shield, selected in regard to exposure potential.
Respiratory Protection:	Not normally needed for this product when diluted in water for end-use application. When needed, use MSHA/NIOSH approved respirator for pesticides.
Dermal Protection:	Chemical resistant gloves, long pants, long-sleeved shirt. Remove and wash contaminated clothing before reuse. Wash separately from other laundry.
Engineering Controls:	Manufacturing: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. End use: Generally not required when treatment dilution is used but local exhaust or ventilation may be used if necessary.
Other Precautions:	An adequate supply of clean, potable water should be available to allow thorough flushing of skin and eyes in event of contact with this compound.

Section 9 – Physical Data

Odor:	Mild odor	Melting Point:	Not Available
Physical State:	Viscous liquid	Flash Point:	Will not flash
Color:	White	Specific Gravity:	1.048 (g/ml)
Bulk Density:	See specific gravity	pH:	5.31
Vapor Pressure:	Not Available	Water Solubility:	Not Available
Viscosity:	162.702 cTs	Refractive Index:	Not Available

Section 10 – Toxicity

EPA Toxicity Category:	III, Caution	Oral LD ₅₀ :	>300 mg/kg
Skin Contact:	Mild irritation	Dermal LD ₅₀ :	>5000 mg/kg
Eye Contact:	Mild irritation	Inhalation LC ₅₀ :	>2.02 mg/l
HMIS/NFPA Classification:	Fire – 0/0	Health – 2/1	
	Reactivity – 0/0	Special - none	
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

Section 11 – Ecological Data

Aquatic:	Lambda cyhalothrin: LC ₅₀ = 0.36 ug/L (rainbow trout)
Avian:	Lambda cyhalothrin: LD ₅₀ = 3950 mg/kg (mallard duck)
Bioaccumulation:	Has potential to bioaccumulate.
Summary:	This material is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds.

Section 12 – Transportation

DOT:	Not regulated
IATA:	Not regulated
IMDG:	Environmentally hazardous substance, liquid, n.o.s. (9.7% lambda cyhalothrin), UN3082, Class 9, PG III, marine pollutant
Federal Motor Carrier Classification:	Insecticides, liquid/dry, NOIBN

Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Contains no components listed under section 302.
Section 304/EHS RQ: (release notification)	Contains no components listed under section 304.
CERCLA RQ: (release notification)	Not regulated under CERCLA.
Section 311/Tier II: (MSDS submission)	Health hazard: Acute
Section 313/TRI Chemicals:	None
RCRA Haz-Waste Code(s):	None
CAA TQ: (air emissions)	None

Section 14 – Other

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

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