

Material Safety Data Sheet

Section 1 – Product Identification

Product Name: Optimate CS
EPA Registration #: 67760-104-53883

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
Gamma Cyhalothrin	76703-62-3	5.9%	None Established
Inert Ingredients	N/A	94.1%	Petroleum distillate: 500 ppm (OSHA)

Section 3 – Hazard Identification

Symptoms of Toxicity: May produce neurotoxic effects including staggering gait, muscle tremors and convulsions.

Flammability: Not combustible.

Reactivity: Stable under normal conditions.

Carcinogenicity: No evidence of carcinogenicity in long term animal studies.

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. Call a poison control center for further treatment advice.

Ingestion: Call poison control center immediately for treatment advice. 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 if irritation persists.

Notes/Physician's Information: Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

Section 5 – Fire and Explosion Hazards

Flash Point:	Will not flash.	Upper Flammability Limit:	N/A
Extinguishing Media:	Foam, dry chemical, CO ₂ , water fog	Lower Flammability Limit:	N/A
Special Procedures:	Use SCBA with full-face piece and protective clothing.		
Unusual Fire Hazards:	Possible toxic smoke, vapors, fallout and runoff water can result from fires.		
Reactivity/Stability:	Toxic and irritating gasses may form when burned or heated. Hazardous polymerization will not occur.		

Section 6 – Spill/Release Procedures

Absorbent:	Universal absorbent pads, vermiculite, absorbent booms, or clay granules.		
Containment:	Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.		
Waste Disposal:	Dispose of contaminated material in municipal land fill or through licensed TSDF. 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 foodstuffs or feed. Store in a cool, dry, well-ventilated area away from flammable materials and sources of heat. Keep away from oxidizing agents and alkaline material.		
Special Handling Considerations:	Exercise caution to prevent damage to or leakage from the container. Workers should follow good hygiene practices to avoid accidental ingestion.		
Container Disposal:	Do not reuse empty containers. Triple rinse (or equivalent), then offer for recycling or render unusable and dispose of in municipal landfill or with licensed TSDF.		

Section 8 – Protective Equipment/Engineering Controls

Eye Protection:	None required when handled under normal circumstances. ANSI approved safety goggles or glasses with side shields are recommended.		
Respiratory Protection:	None required when handled under normal circumstances. NIOSH approved air purifying respirator with combination OVAG & P100 cartridge are recommended at high atmospheric concentrations.		
Dermal Protection:	Gloves, long sleeves, pants and shoes.		
Engineering Controls:	Use only in adequately ventilated areas.		

Section 9 – Physical Data

Odor:	Aromatic	Melting Point:	Below 0°C
Physical State:	Liquid	Flash Point:	Will not flash.
Color:	Opaque off-white	Specific Gravity:	1.02 g/ml
Bulk Density:	See specific gravity	pH:	5.57
Vapor Pressure:	7.73 E ⁻¹⁰ mmHg	Water Solubility:	Disperses in water
Viscosity:	Non-Newtonian fluid. Increases with shear rate.	Refractive Index:	N/A

Section 10 – Toxicity

EPA Toxicity Category:	“Caution” label required	Oral LD ₅₀ :	4444 mg/kg
Skin Contact:	Slightly irritating. Causes parasthesia.	Dermal LD ₅₀ :	>5000 mg/kg
Eye Contact:	Slightly irritating.	Inhalation LC ₅₀ :	>2.31 mg/l (4 hour)
HMIS/NFPA Classification:	Fire - 0 Health - 2 Reactivity - 0	Fire - 0 Health - 2 Reactivity - 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:	Gamma Cyhalothrin LC ₅₀ : 27.1 ug/l for rainbow trout
Avian:	Gamma Cyhalothrin LD ₅₀ : >5000 mg/kg for bobwhite quail
Bioaccumulation:	Has potential to bioaccumulate.
Summary:	This product is extremely toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of wastes.

Section 12 – Transportation

DOT:	Not regulated.
IATA:	Not regulated.
IMDG:	UN3082, Environmentally hazardous substance, liquid n.o.s (gamma cyhalothrin), Class 9, PG III, marine pollutant

Section 13 – Regulatory	
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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 by CERCLA.
Section 311/Tier II: (MSDS submission)	Acute health hazard.
Section 313/TRI Chemicals:	None.
RCRA Haz-Waste Code(s):	Not an RCRA hazardous waste.
CAA TQ: (air emissions)	None.

Section 14 – Other	
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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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