Material Safety Data Sheet

Section 1 – Product Identification

Product Name: OptimateTM 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%	OSHA: 500 ppm Petroleum distillate

Section 3 - Hazard Identification

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

convulsions.

Flammability: Slightly combustible.

Reactivity: Stable under normal conditions.

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

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

Solvent presents aspiration hazard. Gastric lavage is indicated if material was Information: 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, Lower Flammability Limit: N/A

CO₂, water fog

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. ANSI approved safety goggles or glasses with side shields are

recommended.

Respiratory Protection: None required. Use OSHA approved air purifying respirator with

combination OVAG and P100 cartridge.

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. Refractive Index: N/A

Increases with shear rate.

Section 10 – Toxicity

EPA Toxicity Category: "Caution" label required Oral LD₅₀: 4444 mg/kg

Skin Contact: Slightly irritating. Dermal LD₅₀: >5000 mg/kg

Causes parasthesia.

Eye Contact: Slightly irritating. Inhalation LC₅₀: >2.31 mg/l (4 hour)

HMIS/NFPA Classification: Fire - 0 Health - 2 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 LC₅₀: 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

Section 302/TPO: Contains no components listed under section 302.

(emergency planning)

Section 304/EHS RQ: Contains no components listed under section 304.

(release notification)

CERCLA RQ: Not regulated by CERCLA.

(release notification)

Section 311/Tier II: Acute health hazard.

(MSDS submission)

Section 313/TRI None.

Chemicals:

RCRA Haz-Waste Not an RCRA hazardous waste.

Code(s):

CAA TQ: None.

(air emissions)

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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