

Material Safety Data Sheet

Section 1 – Product Identification

Product Name: Pyrofos™ CS Controlled Release Premise Insecticide
 EPA Registration #: 53883-264

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	ACGIH TLV
Chlorpyrifos	002921-88-2	20.00%	0.2 mg/m ³
Inert Ingredients	N/A	80.00%	None Listed

Section 3 – Hazard Identification

Symptoms of Toxicity: Chlorpyrifos is a cholinesterase inhibitor. May cause headache, dizziness, muscle twitching, tremors, nausea, abdominal cramps, diarrhea, sweating, blurred vision, salivation, tearing, tightness in chest, excessive urination, convulsions. Chronic exposure may cause peripheral neuropathy.

Flammability: Not flammable.

Reactivity: Stable under most conditions. May break down into various toxic constituents under elevated temperatures. Avoid temperatures > 40°C.

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

Section 4 – First Aid

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

Eye Contact: Hold eye open and rinse slowly and gently with water for 15 minutes. Remove contact lenses if present, after first 5 minutes. Call a poison control center for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or ambulance, and then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

Note to Physician: If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAN is also antidotal and may be administered in conjunction with atropine.

Section 5 – Fire and Explosion Hazards

Flash Point:	Not applicable.	Upper Flammability Limit:	N/A
Extinguishing Media:	Foam, dry chemical, CO ₂ , water fog	Lower Flammability Limit:	N/A
Special Procedures:	Foam systems are preferred. Use SCBA with full-face piece and protective clothing.		
Unusual Fire Hazards:	Possible toxic smoke, vapors, fallout and runoff water can result from fires. Heated containers can rapidly pressurize/rupture.		
Reactivity/Stability:	Chlorpyrifos is unstable at elevated temperatures. May release organic sulfides and HCl when burned. Hazardous polymerization will not occur.		

Section 6 – Spill/Release Procedures

Absorbent:	Universal or oil-only 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. RQ – As a mixture, 5 pounds or 0.5 gal.
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:	ANSI approved goggles or safety glasses with side shields.
Respiratory Protection:	NIOSH approved half-mask or full-face with P100 (HEPA) type filter.
Dermal Protection:	Gloves, long sleeves, pants and shoes.
Engineering Controls:	Use only in adequately ventilated areas.

Section 9 – Physical Data

Odor:	Mild organophosphate.	Melting Point:	N/A
Physical State:	Liquid.	Flash Point:	Will not flash.
Color:	Off-white, viscous liquid.	Specific Gravity:	See bulk density
Bulk Density:	9.08 lbs per gal	pH:	6.8-7.0
Vapor Pressure:	N/A	Water Solubility:	Disperses in water.
Viscosity:	N/A	Refractive Index:	N/A

Section 10 – Toxicity

EPA Toxicity Category:	Signal word “Caution” required.	Oral LD ₅₀ :	>5000 mg/kg
Skin Contact:	Minimally irritating	Dermal LD ₅₀ :	>5000 mg/kg
Eye Contact:	Minimally irritating	Inhalation LC ₅₀ :	>2.04 mg/L
NFPA Classification:	Fire – 0 Reactivity – 0	Health – 1 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:	LC ₅₀ – Chlorpyrifos < 1.0 mg/L
Avian:	N/A
Bioaccumulation:	Unlikely to bioaccumulate due to high acute toxicity.
Summary:	This product is extremely toxic to fish. Do not apply directly to water. Drifts and runoff from treated areas may be hazardous to aquatic organisms in treated areas.

Section 12 – Transportation

DOT:	>2.2 quarts: RQ, Environmentally hazardous substance, liquid, n.o.s. (chlorpyrifos), UN3082, Class 9, PG III, marine pollutant
IATA:	RQ, Environmentally hazardous substance, liquid, n.o.s. (chlorpyrifos), UN3082, Class 9, PG III
IMDG:	RQ, Environmentally hazardous substance, liquid, n.o.s. (chlorpyrifos), UN3082, Class 9, PG III, marine pollutant

Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Not regulated under section 302.
Section 304/EHS RQ: (release notification)	Not regulated under section 304.
CERCLA RQ: (release notification)	RQ for Chlorpyrifos is 1 pound. As a mixture: RQ – 5 pounds or 0.55 gal. Report all qualifying releases to proper local, state, and federal agencies.
Section 311/Tier II: (MSDS submission)	Acute health hazard. Delayed health hazard.
Section 313/TRI Chemicals:	Chlorpyrifos. CAS #: 002921-88-2
RCRA Haz-Waste Code(s):	Not an RCRA hazardous waste.
CAA TQ: (air emissions)	Not regulated under the CAA.

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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