

Control Solutions, Inc.
5903 Genoa Red Bluff
Pasadena, Texas USA 77507

In Case of Emergency, Call
Information: 1-281-892-2500
CHEMTREC: 1-800-424-9300

1. CHEMICAL IDENTIFICATION

Product Name: Pyrofos CS
 EPA Registration No.: 53883-264
 Active Ingredient (%): Chlorpyrifos 20.00%
 Recommended Use: Insecticide

2. HAZARDS IDENTIFICATION

Health: Caution. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

Environmental: This pesticide is toxic to fish and aquatic invertebrates. Birds feeding in the treated area may be killed. Clean up spilled product to reduce exposure to wildlife. **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops if bees are visiting the treatment area.

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. Chlorpyrifos is unstable at elevated temperatures. May release organic sulfides and HCl when burned. May break down into various toxic constituents under elevated temperatures. Hazardous polymerization will not occur. Avoid temperatures >40°C.

Physical: Do not spray where electrical short circuits might result, such as wall outlets, conduits, motors, switches, etc. Do not spray directly onto or into any electrical equipment.

3. COMPOSITION/INFORMATION ON INGREDIENTS
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<u>Material</u>	<u>% by weight</u>	<u>CAS#</u>	<u>ACGIH TLV</u>
Chlorpyrifos	20.00%	002921-88-2	ACGIH: 0.2 mg/m ³

4. FIRST AID MEASURES

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 poison control center for treatment advice.

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.

Ingestion: Call 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.

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.

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

5. FIRE FIGHTING MEASURES

Flash Point: Not applicable.

Upper Flammability Limit: N/A

Lower Flammability Limit: N/A

Extinguishing Media: Foam, CO₂, water fog or dry chemical.

Explosion Hazards: N/A

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.

6. ACCIDENTAL RELEASE MEASURES

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 TSD. 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 ½ gal.

7. HANDLING AND STORAGE

Storage Conditions: Do not store near foodstuffs or feed. Store in cool, dry, well-ventilated area away from flammable materials and sources of heat. Keep away from oxidizing agents and alkaline material. See label for additional information.

Special Handling: Exercise caution to prevent damage to or leakage from the container. Workers should follow good hygiene practices to avoid accidental ingestion. Do not contaminate water, food, or feed by storage or disposal.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use only in adequately ventilated areas.

Eye Protection: ANSI approved goggles or safety glasses with side shields.

Respiratory Protection: NIOSH approved half-mask or full-face with any P100 (HEPA) type filter.

Dermal Protection: Gloves, long sleeves, pants and shoes. See label for additional information.

Other Precautions: See label for additional information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odor:	Mild organophosphate.
Physical State:	Liquid.
Color:	Off-white, viscous liquid.
Vapor Pressure:	Not available.
Bulk Density:	9.08 lbs per gallon.
Molecular Weight:	Not available.
Viscosity:	Not available.
Melting Point:	Not available.
Flash Point:	Will not flash.
Specific Gravity:	See Bulk Density.
pH:	6.8-7.0.
Water solubility:	Disperses in water.
Refractive Index:	Not available.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Decomposition Products:	May release organic sulfides and HCl when burned.
Conditions to Avoid:	Avoid Cross Contamination. Avoid temperatures >40° C.

11. TOXICOLOGICAL DATA

EPA Toxicity Category:	Signal word "Caution" required.
Routes of Exposure:	Dermal, eye, inhalation, ingestion.
Skin Contact:	Minimally irritating.
Eye Contact:	Minimally irritating.
Oral LD ₅₀ :	>5000 mg/kg
Dermal LD ₅₀ :	>5000 mg/kg
Inhalation LC ₅₀ :	>2.04 mg/L
Carcinogenicity:	* IARC: Not Listed. * GHS: Not Listed. * NTP: Not Listed.
HMIS/NFPA	
Classification:	Fire – 0 Health – 1 Reactivity – 0 Special – None
Teratogenicity:	None.
Embryo Toxicity:	None.
Reproductive Effects:	None.
Mutagenicity:	None.
Other Chronic Effects:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.

12. 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.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Dispose of in accordance with applicable Federal, state and local laws and regulations. See label for additional information.

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 TSD. See label for additional information.

14. TRANSPORTION DATA

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

IATA: RQ, Environmentally hazardous substance, liquid, n.o.s. (contains chlorpyrifos), UN3082, Class 9, PG III

IMDG: RQ, Environmentally hazardous substance, liquid, n.o.s. (contains chlorpyrifos), UN3082, Class 9, PG III, marine pollutant

15. REGULATORY DATA

Section 302/TPQ: (emergency planning) Not regulated under section 302.

Section 304/EHS RQ: (release notification) Not regulated under section 304.

CERCLA RQ: 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: (SDS 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.

Unclassified: None.

GHS Classification: None.

16. OTHER INFORMATION

Date of Last Revision: June 17, 2015

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 SDS.

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