

Product Name:	Pyrofos CS
EPA Registration No.:	53883-264
Recommended Use:	Insecticide; See product label for a complete list of uses and use sites.
Restrictions on Use:	See product label for any restrictions on the use of this product.
Chemical Family:	Organophosphate
Chemical Name of Active Ingredient(s):	Chlorpyrifos
Manufactured for:	Control Solutions, Inc.
	5903 Genoa-Red Bluff
	Pasadena, TX 77507
FOR FIRE, SPILL, AND/OR LE	EAK EMERGENCIES CONTACT: <u>CHEMTREC 1-800-424-9300</u>

FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050

# SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Off-white viscous liquid with mild organophosphate odor. May be harmful if inhaled.

# OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Inhalation Toxicity		Category 4	
		<b>^</b>	
Signal Word:	WARNING	!	
Hazard Statement(s): Precautionary Statement(s):	Harmful if inha	aled	
Prevention:	Avoid breathing mist/vapors/spray. Use only outdoors in a well-ventilated area.		
Response:	, , , , , , , , , , , , , , , , , , , ,		
Storage: Disposal:			

SECTION 3: COMPOSTION/INFORMATION ON INGREDIENTS		
Chemical Name	CAS Number	Weight %
Chlorpyrifos	2921-88-2	20.0%
Propylene glycol	57-55-6	18.0 - 24.0%

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES		
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. Call a poison control center or doctor for treatment advice.	
IF ON SKIN:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 1 5 to 20 minutes. Call a poison control center or doctor for treatment advice.	
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.	
IF INGESTED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.		
Most important symptoms/effects, acute and delayed: Direct contact with skin may cause temporary		

irritation including dryness and itching. Cholinesterase inhibition.

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

#### SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable Extinguishing Media:	Water jet as it may spread fire.
Hazardous Combustion Products:	Thermal decomposition may produce toxic carbon and nitrogen oxides.
Special Protective Equipment &	Evacuate area and fight fire upwind from a safe distance to avoid
Precautions:	hazardous vapors and decomposition products. Foam and/or dry
	chemical are preferred to minimize environmental contamination. If
	water is used, dike and collect water to prevent run-off. Wear self-
	contained breathing apparatus and full fire-fighting turn-out gear
	(Bunker gear).
Unusual Fire & Explosion Hazards:	None known

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	See Section 8 for personal protection equipment.
<b>Environmental Precautions:</b>	Keep spilled material and any rinsate from contaminating soil or from entering
	sewage and drainage systems and bodies of water.
Methods for Containment:	Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.
Methods for Clean-up:	Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container. Clean area carefully as product is oil based and may cause a slipping hazard.
Other Information:	This product contains chlorpyrifos and spills may require reporting under Federal, state or locals laws and regulations.

#### SECTION 7: HANDLING AND STORAGE

 Handling:
 RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

Storage: See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

Storage Temperature (Min/Max):Store at room temperature.Product Incompatibilities:Strong oxidizers, strong acids, strong bases

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

#### **Exposure Guidelines:**

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
No components listed			

Engineering Controls:	Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.
Respiratory Protection:	In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.
Eye Protection:	Chemical goggles or safety glasses and full-face shield.
Protective Gloves:	Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.
<b>Other Protective Clothin</b>	g: Long-sleeved shirt, long pants and shoes plus socks.
General Safety Measure	S: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Off-white viscous liquid	Upper/Lower Flammability Limits:	Not determined
Odor:	Organophosphate	Vapor Pressure:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH:	6.8 - 7.0	Relative Density (@24°C):	1.088 (typical)
Melting /Freezing Point:	Not determined	Solubility (water):	Disperses
Boiling Point/Range:	Not determined	Partition Coefficient:	Not determined
Flash Point:	Not applicable	Auto-ignition Temperature:	Not determined
Evaporation Rate:	Not determined	Decomposition Temperature:	Not determined
Flammability:	Not applicable	Viscosity:	Not determined

SECTION 10: STABILITY AND REACTIVITY		
Reactivity:	No hazardous chemical reactions known.	
Chemical Stability:	Stable under normal storage and handling conditions.	
Possibility of Hazardous Reactions:	No potential for hazardous reactions known.	
Conditions to Avoid:	Extreme temperatures	
Incompatible Materials:	Strong oxidizers, strong acids, strong bases	
Hazardous Decomposition Products:	Thermal decomposition may produce toxic carbon and nitrogen	
	oxides.	

# SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eye contact, Skin contact, Inhalation, Ingestion			
Symptoms of Exposure:	See Section 4			
Oral LD <sub>50</sub> :	>5,000 mg/kg (rat)			
Dermal LD <sub>50</sub> :	>5,000 mg/kg (rat)			
Inhalation $LC_{50}$ :	>2.03 mg/L (4 hr)(rat	t)		
Eye Irritation/Damage:	Causes mild to mode	erate eye irritation cl	earing within 48 hours	
Skin Corrosion/Irritation:	Causes mild to mode	erate skin irritation cl	earing within 48 to 72	hours.
Skin Sensitization:	Not a contact sensiti	zer		
Chronic/Subchronic Toxicity: Mutagenicity: Reproductive Toxicity: Neurotoxicity: Target Organs:	<ul> <li>ity: Chlorpyrifos is a known cholinesterase inhibitor.</li> <li>No data available</li> <li>No data available</li> <li>No data available</li> <li>Central nervous system</li> </ul>			
Aspiration Hazard:	Not anticipated to be an aspiration hazard.			
Carcinogenicity:	See below.			
Chemical Name	ACGIH	IARC	NTP	OSHA
No components listed				
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# SECTION 12: ECOLOGICAL INFORMATION

## Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This pesticide is toxic to birds, 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 it to drift to blooming crops or weeds if bees are visiting the treatment area.

ECOTOXICITY DATA:	The data presented below is on technical chlorpyrifos.
Fish Toxicity:	Oncorhynchus mykiss: 96 hr LC50 = 0.025 mg/L
Aquatic Invertebrate Toxicity:	Daphnia magna: 48 hr $EC_{50}$ = 0.0001 mg/L
Aquatic Plant Toxicity:	Algae: 72 hr $EC_{50}$ = 1.2 mg/L
Avian Toxicity:	No data available
Honeybee Toxicity:	Oral LD <sub>50</sub> = 0.25 $\mu$ g/bee

#### **ENVIRONMENTAL EFFECTS:**

Persistence and Degradability:	No data available
Bioaccumulation:	No data available
Mobility:	No data available
Other Adverse Effects:	No data available

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal:	Refer to the pesticide label for full information on disposal. Pesticide wastes are
	toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a
	violation of Federal law. If these wastes cannot be used according to label
	instructions, contact your State Pesticide or Environmental Control Agency or the
	Hazardous Waste representative at the nearest EPA Regional Office for guidance in
	proper disposal methods.
Container Disposal:	Refer to the pesticide label for full information on disposal. When possible, triple
	rinse the container and offer for recycling if available.
<b>RCRA Characteristics:</b>	It is the responsibility of the individual disposing of this product to determine the
	RCRA classification and hazard status of the waste.

#### SECTION 14: TRANSPORTATION INFORMATION

DOT	Quantities greater than 2.2 quarts:
(Ground):	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Chlorpyrifos), 9, PGIII, RQ
IMDG (Sea):	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Chlorpyrifos), 9, PGIII
IATA (Air):	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Chlorpyrifos), 9, PGIII

# SECTION 15: REGULATORY INFORMATION

**Labeling Requirements Under FIFRA:** This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

## 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.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:

Section 311/312 – Hazard Categories:

Section 302 – Extremely hazardous substances: None

Immediate (Acute), Delayed (Chronic)

**Section 313** – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
None listed		

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
Chlorpyrifos	2921-88-2	1 lb.	0.55 gallons

#### **CALIFORNIA PROPOSITION 65:**

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

#### **U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol	Х		Х
Chlorpyrifos	Х		Х

# **SECTION 16: OTHER INFORMATION**

NFPA Health Hazards 1	Flammability 1	Instability 0	Special Hazards – None

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# Pyrofos CS

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