



SECTION 1: IDENTIFICATION

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):

Manufactured for: Control Solutions, Inc.

5903 Genoa-Red Bluff Pasadena, TX 77507

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300

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

Signal Word: WARNING



Hazard Statement(s): Harmful if inhaled

Precautionary Statement(s):

Prevention: Avoid breathing mist/vapors/spray.

Use only outdoors in a well-ventilated area.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a poison center/doctor if you feel unwell.

Storage: No statement required. See Section 7 for storage information. **Disposal:** No statement required. See Section 13 for disposal information.

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).

Revision Date: December 14, 2015

SECTION 4: FIR	RST 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

Precautions:

Other Information:

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 pr

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

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.

Environmental Precautions: 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.

This product contains chlorpyrifos and spills may require reporting under

Federal, state or locals laws and regulations.

Pyrofos CS

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.

Other Protective Clothing: Long-sleeved shirt, long pants and shoes plus socks.

General Safety Measures: 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.

Pyrofos CS Revision Date: December 14, 2015

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white viscous **Upper/Lower Flammability Limits:** Not determined

liquid

Odor: Organophosphate **Vapor Pressure:** Not determined **Odor Threshold:** Not determined Vapor Density: Not determined pH: 6.8 - 7.0Relative 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: **Auto-ignition Temperature:** Not applicable Not determined **Evaporation Rate:** Not determined **Decomposition Temperature:** Not determined Flammability: Not applicable **Viscosity:** Not determined

SECTION 10: STABILITY AND REACTIVITY

No hazardous chemical reactions known. Reactivity:

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 >5,000 mg/kg (rat) Oral LD₅₀: Dermal LD₅₀: >5,000 mg/kg (rat) Inhalation LC₅₀: >2.03 mg/L (4 hr)(rat)

Eye Irritation/Damage: Causes mild to moderate eye irritation clearing within 48 hours. **Skin Corrosion/Irritation:** Causes mild to moderate skin irritation clearing within 48 to 72 hours.

Skin Sensitization: Not a contact sensitizer

Chlorpyrifos is a known cholinesterase inhibitor. **Chronic/Subchronic Toxicity:**

Mutagenicity: No data available **Reproductive Toxicity:** No data available No data available **Neurotoxicity: Target Organs:** Central nervous system

Aspiration Hazard: Not anticipated to be an aspiration hazard.

Carcinogenicity: See below.

Chemical Name	ACGIH	IARC	NTP	OSHA
No components listed				

Pyrofos CS

Revision Date: December 14, 2015

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 $LC_{50} = 0.025$ mg/L **Aquatic Invertebrate Toxicity:** Daphnia magna: 48 hr $EC_{50} = 0.0001$ mg/L

Aquatic Plant Toxicity: Algae: 72 hr $EC_{50} = 1.2 \text{ mg/L}$

No data available **Avian Toxicity: Honeybee Toxicity:** Oral LD₅₀ = $0.25 \mu g/bee$

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.

RCRA Characteristics: 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

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Chlorpyrifos), 9, PGIII (Sea):

Obtained by Global Safety Management, www.globalsafetynet.com, (877) 683-7460

IATA

UN3082, Environmentally hazardous substance, liquid, n.o.s. (Chlorpyrifos), 9, PGIII (Air):

Revision Date: December 14, 2015

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 302 – Extremely hazardous substances: None

Section 311/312 – Hazard Categories: 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	X		Χ
Chlorpyrifos	X		Х

SECTION 16: OTHER INFORMATION

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

Disclaimer: Control Solutions, Inc. believes the information presented herein is accurate and correct as of the document date. The presented information is based upon available data from reliable sources. Control Solutions, Inc. makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability

Page **7** of **7 Revision Date:** December 14, 2015

Pyrofos CS

of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: December 14, 2015 **Document Superseded:** June 17, 2015

Revision Note: Update to SDS format