



SAFETY DATA SHEET

PyroFos 1.5 ULV

SECTION 1: IDENTIFICATION

Product Name: PyroFos 1.5 ULV
EPA Registration No.: 53883-251
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 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: Light amber liquid with petroleum-like odor. Combustible liquid. Aspiration hazard. May cause drowsiness or dizziness if inhaled. Causes skin irritation.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

| | |
|--|------------|
| Flammable Liquids | Category 4 |
| Aspiration Hazard | Category 1 |
| Acute Inhalation Toxicity | Category 4 |
| Specific Target Organ Toxicity – Single Exposure | Category 3 |

Signal Word: DANGER



Hazard Statement(s): Combustible liquid
May be fatal if swallowed and enters airways
Harmful if inhaled
May cause drowsiness or dizziness

Precautionary Statement(s):

Prevention: Keep away from flames and hot surfaces. – No smoking.
Wear protective gloves/eye protection/face protection.
Avoid breathing mist/vapors/spray.
Use only outdoors in a well-ventilated area.

Response: **IN CASE OF FIRE:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Storage: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity:

30.11% Acute Inhalation toxicity

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Weight % |
|---------------|------------|----------|
| Chlorpyrifos | 2921-88-2 | 19.36% |

*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

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| 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 15 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. May cause aspiration pneumonia if swallowed and vomited. Cholinesterase inhibition. Inhalation may cause drowsiness or dizziness.

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

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 & Precautions: 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: Vapors may be flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.

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 and remove all sources of ignition. 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. Avoid combustible materials such as sawdust or cloth rags. 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. Do not store near sources of ignition.

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 |
|-------------------|-------------------------|---|--|
| Oil mist, mineral | 5 mg/m ³ TWA | 5 mg/m ³ TWA Inhalable fraction | 5 mg/m ³ TWA: 10 hours, mist 10 mg/m ³ STEL: 15 minutes, mist |

- 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 oil mists and 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------|--------------------|---|-----------------|
| Appearance: | Light amber liquid | Upper/Lower Flammability Limits: | Not determined |
| Odor: | Petroleum-like | Vapor Pressure: | Not determined |
| Odor Threshold: | Not determined | Vapor Density: | Not determined |
| pH: | Not determined | Relative Density (@24°C): | 0.93 (typical) |
| Melting /Freezing Point: | Not determined | Solubility: | Not determined |
| Boiling Point/Range: | Not determined | Partition Coefficient: | Not determined |
| Flash Point: | 165.2°F | Auto-ignition Temperature: | Not determined |
| Evaporation Rate: | Not determined | Decomposition Temperature: | Not determined |
| Flammability: | Not applicable | Viscosity: | 10.2 cSt @ 40°C |

SECTION 10: STABILITY AND REACTIVITY

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| 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: | Excessive heat, sources of ignition |
| Incompatible Materials: | Strong oxidizers, strong acids, strong bases |
| Hazardous Decomposition Products: | Thermal decomposition may produce toxic carbon and nitrogen oxides. |

SECTION 11: TOXICOLOGICAL INFORMATION

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| Likely Routes of Exposure: | Eye contact, Skin contact, Inhalation, Ingestion |
| Symptoms of Exposure: | See Section 4 |
| Oral LD₅₀: | >4,000 mg/kg (Estimated based upon component data) |
| Dermal LD₅₀: | >2,000 mg/kg (Estimated based upon component data) |
| Inhalation LC₅₀: | 4.78 mg/L (Estimated based upon component data) |
| Eye Irritation/Damage: | Not anticipated to cause more than mild and temporary eye irritation based upon component data. |

Skin Corrosion/Irritation: Not anticipated to cause skin irritation based upon component data.
Skin Sensitization: Non-sensitizer, based upon component data.

Chronic/Subchronic Toxicity: Chlorpyrifos is a known cholinesterase inhibitor.
Mutagenicity: No data available
Reproductive Toxicity: No data available
Neurotoxicity: No data available
Target Organs: Central nervous system
Aspiration Hazard: This product is anticipated to be an aspiration hazard.
Carcinogenicity: See below.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|------|-----|------|
| No components listed | | | | |

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Runoff from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates. Do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries) except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material beyond the body of water in order to minimize incidental deposition into the water body. Do not contaminate bodies of water when disposing of equipment rinsate or wash waters.

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, except when applications are made to prevent or control a threat to public and/or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes, or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

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 EC₅₀ = 0.0001 mg/L
Aquatic Plant Toxicity: Algae: 72 hr EC₅₀ = 1.2 mg/L
Avian Toxicity: No data available
Honeybee Toxicity: Oral LD₅₀ = 0.25 µg/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 2.7 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. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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), Fire
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. | 0.67 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 |
|---------------|------------|---------------|--------------|
| Chlorpyrifos | X | | X |

SECTION 16: OTHER INFORMATION

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|-------------|-------------------------|-----------------------|----------------------|-------------------------------|
| NFPA | Health Hazards 2 | Flammability 2 | Instability 0 | Special Hazards – None |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|

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