

# SAFETY DATA SHEET

## PYROFOS™ 42 CS

### 1. IDENTIFICATION

Product name: **PYROFOS™ 42 CS**  
Product type: Insecticide  
EPA Registration No.: 53883-331  
Chemical name of active ingredient(s): **Chlorpyrifos:** O,O-diethyl O-3,5,6-trichloropyridin-2-yl phosphorothioate  
Manufacturer/Registrant: Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507  
For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300  
For medical emergencies and health and safety inquiries, contact Safety Call: Phone: 1-866-897-8050  
Poison Control Center Phone: 1-800-222-1222

### 2. HAZARDS IDENTIFICATIONS

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

#### Acute Toxicity:

| Exposure Route | Acute oral | Acute dermal | Acute inhalation | Eye irritation | Skin irritation | Skin Sensitization |
|----------------|------------|--------------|------------------|----------------|-----------------|--------------------|
| Category       | NC         | NC           | 4                | NC             | NC              | NC                 |

NC: Not classified

**SIGNAL WORD:** WARNING

#### HAZARD STATEMENTS:

- May be harmful if swallowed, in contact with skin, or if inhaled
- May be harmful in contact with skin
- Harmful if inhaled
- May cause eye irritation

#### PICTOGRAM:



#### PRECAUTIONARY STATEMENTS:

- Avoid breathing mist, vapors and spray. Use only outdoors or in a well-ventilated area. If inhaled: remove a person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| COMMON NAME                              | CAS NO.    | %   | OSHA PEL                       | ACGIH TLV                      | OTHER                                    | NTP/IARC/OSHA (Carcinogen) |
|--|------------|-----|--------------------------------|--------------------------------|--|----------------------------|
| Chlorpyrifos                             | 2921-88-2  | 42  | NE                             | 0.2 mg/m <sup>3</sup>          | 0.2 mg/m <sup>3</sup>                    | NA                         |
| Aromatic hydrocarbon solvent containing: | 64742-94-5 | < 5 | NE                             | NE                             | NA                                       | NA                         |
| Naphthalene                              | 91-20-3    | < 1 | 10 ppm<br>50 mg/m <sup>3</sup> | 10 ppm<br>52 mg/m <sup>3</sup> | 15 ppm<br>75 mg/m <sup>3</sup><br>(STEL) | NTP – 2*<br>IARC –2B**     |

NE= Not established, NA= Not applicable

\* Substances, which may reasonably be anticipated to be carcinogens.

\*\* IARC Group 2B: Substance is possibly carcinogenic to humans

### 4. FIRST AID MEASURES

| <b>FIRST AID</b>   |   |
|--|---|
| This product contains an organophosphate that inhibits cholinesterase.   |   |
| <b>IF INHALED:</b>   | <ul style="list-style-type: none"> <li>• Remove person to fresh air and keep comfortable for breathing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>                                  |
| <b>IF IN EYES:</b>   | <ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul> |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <u>For information on this product, contact the National Pesticide Information Center, 1-800-858-7378, Monday-Friday, 7:30 AM-3:30 PM PST. You may also contact the National Poison Control Center, 1-800-222-1222, day or night, for emergency medical treatment information or SafetyCall® at (866) 897-8050. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.</u></p> |   |
| <p><b>NOTE TO PHYSICIAN:</b> If symptoms of cholinesterase inhibition are present, atropine sulphate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.</p>   |   |

### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** >100°C

**FLAMMABLE LIMITS:** Not determined

**EXTINGUISHING MEDIA:** Water mist, CO<sub>2</sub>, dry chemical and foam.

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Combustion products of this material have to be classed invariably as respiratory poison.

**FIRE-FIGHTING PROCEDURES:** Isolate fire area and evacuate downwind. DO NOT breathe gases, smoke or vapors generated. Wear self-contained breathing apparatus and full-protective clothing. Cool fire exposed areas and equipment. Run-off water from firefighting must not be discharged into drains or enter surface water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may generate carbon monoxide, carbon dioxide, hydrogen chloride, sulfur oxide, nitrogen oxides, phosphorus oxides, chlorides, sulfides.

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### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Avoid contact with skin, eyes and clothing. Use personal protective clothing.

**ENVIRONMENTAL PRECAUTIONS:** Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

**METHODS FOR CLEANING UP/TAKING UP:** Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations.

### 7. HANDLING AND STORAGE

Do not contaminate water, food, or feed by storage or disposal.

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Avoid contact with skin and eyes. Take precautions to avoid damaging containers. Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking. Clean water should be available to rinse eyes and skin in case of chemical exposure. Do not inhale vapor. Remove soiled or soaked clothing immediately. Keep away from sources of ignition.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container. Store upright at room temperature. Avoid exposure to extreme temperatures. Do not store near heat or open flame. Store away from foodstuffs, feed, and children.

**STORAGE TEMPERATURE (MIN/MAX):** Normal ambient temperatures.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**EYE PROTECTION:** Protective eyewear, chemical safety glasses with side shields or chemical goggles.

**SKIN PROTECTION:** Long-sleeve shirt, long pants, shoes plus socks.

**HAND PROTECTION:** Chemical-resistant gloves.

**RESPIRATOR REQUIREMENTS:** None likely to be needed. NIOSH approved P class filtering face piece or respirator may be used to minimize inhalation of aerosols.

**WORK HYGIENIC PRACTICES:**

Clean water should be available to rinse eyes and skin in case of chemical exposure. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

**ADDITIONAL PROTECTIVE MEASURES:**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

**Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**EXPOSURE GUIDELINES:** Refer to Section 3.

**ENGINEERING CONTROLS:** Use only in adequately ventilated areas.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Brown liquid  
**ODOR:** Sulphur-like  
**pH:** 4 – 7  
**FLASH POINT:** > 100°C  
**SPECIFIC DENSITY:** 1.1 - 1.2 g/cm<sup>3</sup> @20°C  
**SOLUBILITY IN WATER:** Dispersible  
**VISCOSITY:** 0.1 – 1.0 Pa\*s @20°C

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.  
**CONDITIONS AND MATERIALS TO AVOID:** Oxidizing agents, acids and bases.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** No hazardous decomposition products known.  
**HAZARDOUS POLYMERIZATION:** Will not occur.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD<sub>50</sub> (Rat): > 5,000 mg/kg  
Acute Dermal LD<sub>50</sub> (Rabbit): > 5,050 mg/kg  
Acute Inhalation LC<sub>50</sub> (Rat): > 2.12 mg/L/4hr  
Eye Irritation: Non-irritating.  
Skin Irritation: Non-irritating.  
Dermal Sensitization: Not a sensitizer

**OTHER TOXICOLOGICAL INFORMATION:** Not available.

**CARCINOGENICITY:** No experimental information on carcinogenic effects available.

**GENOTOXICITY:** No experimental information on genotoxicity available.

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** 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.

**ECOTOXICOLOGICAL INFORMATION:** (Data Source: Pesticide Manual; based on Chlorpyrifos)

Rain trout LC<sub>50</sub> (96h): 0.007 – 0.051 mg/l

Daphnia EC<sub>50</sub> (48h): 1.7 µg/l

Algae EC<sub>50</sub> (72h): > 0.4 mg/l

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

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### 14. TRANSPORT INFORMATION

**DOT CLASSIFICATION:** >2.2 quarts: RQ, Environmentally hazardous substance, liquid, N.O.S. (chlorpyrifos), UN3082, Class 9, PG III, marine pollutant

**INTERNATIONAL TRANSPORTATION:**

**IMO (vessel):** RQ, UN3082, Environmentally hazardous substance, liquid, N.O.S. (Chlorpyrifos), Class 9, PG III

**IATA (air):** RQ, UN3082, Environmentally hazardous substance, liquid, N.O.S. (Chlorpyrifos), Class 9, PG III

### 15. REGULATORY INFORMATION

**FIFRA INFORMATION:**

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 for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

**CAUTION** Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**SARA TITLE III CLASSIFICATION:**

Section 302: Not applicable.  
Section 311/312: Acute health hazard (immediate)  
Section 313: Naphthalene (CAS #: 91-20-3)  
Chlorpyrifos (CAS # 2921-88-2)

**CA PROPOSITION 65:** Not applicable

**CERCLA RQ:** Naphthalene (CAS #: 91-20-3) RQ= 100 lbs.  
Chlorpyrifos (CAS # 2921-88-2) RQ= 1 lbs. As a mixture: RQ= 5 pounds or 0.55 gal.  
Report all qualifying releases to proper local, state, and federal agencies.

**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

### 16. OTHER INFORMATION

| HAZARD RATINGS | NFPA | HMIS |            |
|----------------|------|------|------------|
| HEALTH:        | 1    | 1    | 0 MINIMAL  |
| FLAMMABILITY:  | 0    | 0    | 1 SLIGHT   |
| REACTIVITY:    | 0    | 0    | 2 MODERATE |
|                |      |      | 3 HIGH     |
|                |      |      | 4 SEVERE   |

**MSDS DATE:** Issued 06-21-2013.

The information and recommendations contained herein are based upon data believed to be correct. However, no warranty of any kind, expressed or implied, is made with respect to the information contained herein.