

**1. IDENTIFICATION**

Product name: **Quali-Pro® Chlorothalonil 500 ZN**  
 Chemical name of active ingredient(s): Chlorothalonil (38.5%): Tetrachloroisophthalonitrile  
 Manufacturer: FarmSaver.com, LLC.  
 4515 Falls of Neuse Road, Suite 300  
 Raleigh, NC 27609  
 Phone: 1-800-979-8994

For fire, spill, and/or leak emergencies, contact Chemtrec: Phone: 1-800-424-9300  
 Outside US: 1-703-527-3887

For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-800-308-5391

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Chlorothalonil	1897-45-6	38.5	NE	NE	10 mg/m <sup>3</sup>	IARC – 2B*

NE=not established

\*IARC Group 2B: The agent is possibly carcinogenic to humans.

**3. HAZARDS IDENTIFICATIONS****PHYSICAL PROPERTIES**

Appearance: Gray liquid

Odor: Slight

**EMERGENCY OVERVIEW:** WARNING. Hazards to humans and domestic animals. Causes eye irritation. May cause skin irritation. May be a potential skin sensitizer. DO NOT get into eyes. Avoid prolonged contact with skin. Avoid breathing spray mist. DO NOT take internally.

**HAZARDOUS DECOMPOSITION PRODUCTS:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition, e.g., hydrogen chloride.

**SYMPTOMS OF EXPOSURE:** This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician. Contains propylene glycol that is reported to cause central nervous system depression (anesthesia, dizziness, confusion), headache and nausea.

**4. FIRST AID MEASURES****FIRST AID****IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-308-5391 for emergency medical treatment information.

**Note to physician:** Persons having temporary skin irritation symptoms may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

**5. FIRE FIGHTING MEASURES****FLASH POINT:** Not applicable**FLAMMABLE LIMITS:**

LFL/UFL: Not applicable

**EXTINGUISHING MEDIA:** Dry foam, carbon dioxide extinguishing media.

**HAZARDOUS DECOMPOSITION PRODUCTS:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition, e.g., hydrogen chloride.

**FIRE-FIGHTING PROCEDURES:** If product is involved in a fire, wear positive-pressure, self-contained breathing apparatus and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** This product is toxic to fish. Keep out of lakes, streams or ponds. Contain spill. Remove as much as possible by absorbing with an inert material. Scrub area with a hard water detergent (commercial products such as Spic and Span®, Tide®, or Joy®). Remove any contaminated soil. Place in closed, labeled containers and store in a safe place until disposed. Do not contaminate water while cleaning equipment or disposing of wastes.

## 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, replaced lid and close tightly.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Do not contaminate water, foodstuffs, feed or seed by storage. Store in a cool place. Protect from excessive heat. Store product in original container only away from water, food or feed. Do not put concentrate or diluted product into food or drink containers.

**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.

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

**HAND PROTECTION:** Chemical-resistant gloves, such as nitrile rubber or butyl rubber.

**RESPIRATOR REQUIREMENTS:** Atmospheric levels should be maintained below the exposure guidelines. For most conditions, no respiratory protection should be needed; however, if handling without sufficient ventilation, use NIOSH approved air-purifying respirator with N, P or R95 class filter and an organic vapor cartridge.

**ADDITIONAL PROTECTIVE MEASURES:** Discarded 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.

### USER SAFETY RECOMMENDATIONS:

Users should:

- 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.
- As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**EXPOSURE GUIDELINES:** Refer to Section 2.

**ENGINEERING CONTROLS:** Refer to product label.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL PROPERTIES

**Appearance:** Gray liquid

**Odor:** Slight

**FLASH POINT:** Not applicable

**PH:** 6.5-8.5

**BOILING POINT:** 212° F

**MELTING POINT:** Not established

**SOLUBILITY IN H<sub>2</sub>O:** Dispersible

**SPECIFIC GRAVITY:** 1.30

**VAPOR PRESSURE:** 5.72 x 10<sup>-7</sup> torr @ 25° C

#### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal use and storage conditions.

**MATERIALS TO AVOID:** Avoid metals such as aluminum.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INSTABILITY CONDITIONS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition, e.g., hydrogen chloride.

#### 11. TOXICOLOGICAL INFORMATION

##### ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD50 (Rat):	3,750 mg/kg
Acute Dermal LD50 (Rabbit):	>2,000 mg/kg
Acute Inhalation LC50 (Rat):	0.25 mg/L (4-hrs)
Eye Irritation (Rabbit):	Mildly irritating.
Dermal Irritation (Rabbit):	Moderately irritating.
Dermal Sensitization (Guinea Pig):	Moderate skin sensitizer.

No other toxicological data available.

#### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water or areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

#### 13. DISPOSAL CONSIDERATIONS

**END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.**

**PRODUCT DISPOSAL:** Do not contaminate water, food or feed by disposal. Improper disposal of excess pesticide, pesticide spray or rinsate is a violation of Federal law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed on site or at a landfill or waste disposal facility approved for waste disposal, or in accordance with all applicable Federal, state, or local regulations.

**CONTAINER DISPOSAL:** Empty containers retain vapor and product residues. Follow all labeled safeguards until container is cleaned, reconditioned or destroyed.

#### 14. TRANSPORT INFORMATION

##### DOT CLASSIFICATION:

Not regulated

**B/L Freight Classification:** Item: 102120 [Insecticides, Fungicides, Insect or Animal Repellent]  
Class 60

##### INTERNATIONAL TRANSPORTATION

**IMO (vessel):** Environmentally hazardous substances, liquid, N.O.S. (chlorothalonil 38.5%), 9, UN3082, PGIII, Marine pollutant

**IATA (air):** Not regulated

#### 15. REGULATORY INFORMATION

##### SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

MATERIAL SAFETY DATA SHEET

**Quali-Pro® Chlorothalonil 500 ZN**

Page 4 of 4

Section 313: Delayed health hazard (chronic)  
Chlorothalonil (38.5%) CAS# 1897-45-6

**CA PROPOSITION 65:** This product contains a chemical (chlorothalonil) that is known to the State of California to cause cancer.

**CERCLA RQ:** Not applicable

**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**

**MSDS DATE:** 11-19-07

The information herein is given in good faith, but no warrant, express or implied, is made. Consult FarmSaver.com, LLC. for further information.