



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 9, 2019

Mr. Christopher Davis  
Registration Manager  
AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660

Subject: Notification per PRN 98-10 – Change of Primary Brand Name from AMVAC Fortress Technical to Chlorethoxyfos Technical, Updating Emergency Phone Number, and Correcting Typographical Errors  
Product Name: Chlorethoxyfos Technical  
EPA Registration Number: 5481-492  
Application Date: August 10, 2018  
Decision Number: 545223

Dear Mr. Davis:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, please contact Briana Hanlon at (703) 347-8337 or by email at [hanlon.briana@epa.gov](mailto:hanlon.briana@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Walsh".

Michael Walsh, Product Manager 11  
Invertebrate & Vertebrate Branch 2  
Registration Division  
Office of Pesticide Programs

# Chlorethoxyfos Technical

**ACTIVE INGREDIENT:**

Chlorethoxyfos:

Phosphorothioic acid, O,O-diethyl

O-(1,2,2,2-tetrachloroethyl) ester.....88.0%

**INERT INGREDIENTS:** ..... 12.0%

**TOTAL:** .....100.0%

**KEEP OUT OF REACH OF CHILDREN**

**NOTIFICATION**

5481-492

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

08/09/2019

**DANGER**



**PELIGRO**

**POISON**

**PRECAUCION AL USUARIO:** Si usted no les ingles, no used este producto hasta quela etiqueta haya sido explicado ampliamente.

| <b>FIRST AID</b>   |  |
|--|--|
| <b>If swallowed</b>  | <ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul> |
| <b>If on skin or clothing</b>  | <ul style="list-style-type: none"> <li>• Take off contaminated clothing.</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 for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>  |
| <b>If inhaled</b>  | <ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>   |
| <b>EMERGENCY INFORMATION</b>   |  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For transportation emergencies, call Chemtrec 24 hours a day at 1-800-424-9300. For all other emergencies, call AMVAC 24 hours a day at <del>1-323-264-3910</del> <b>1-888-681-4261</b> . |  |

SEE INSIDE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA Reg. No.: 5481-492

EPA Est. No.: \_\_\_\_\_



4100 E. Washington Boulevard  
Los Angeles, CA 90023 USA  
1-888-462-6822

#### NOTE TO PHYSICIAN

**This product is an organophosphate insecticide. ATROPINE IS THE EMERGENCY ANTIDOTE FOR CHLORETHOXYFOS TECHNICAL POISONING.** 2-PAM is also antidotal and may be used in conjunction with atropine. CALL A PHYSICIAN AT ONCE IN ALL CASES OF SUSPECTED POISONING.

#### *Warning Symptoms*

Chlorethoxyfos Technical is an organophosphate insecticide and is a cholinesterase inhibitor. Overexposure to this product may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. Symptoms of poisoning may include weakness, headache, tightness in chest, blurred vision, non-reactive pin-point pupils, salivation, sweating, nausea, vomiting, diarrhea, muscle tremors and abdominal cramps. In severe cases, convulsions, unconsciousness and respiratory failure may occur.

#### *Treatment*

Atropine is the specific therapeutic antagonist of choice against this type of parasympathetic nervous stimulation. If warning symptoms appear, treatment should consist of parenteral atropine sulfate. This can be administered intramuscularly every 10 minutes until full atropinization (as indicated by dilated pupils, dry flushed skin and tachycardia) has been achieved and repeated thereafter whenever symptoms reappear. For infants and children, the dose of atropine sulfate is 0.05 mg/kg. For adults 1 to 2 milligrams will be required for mild cases, but up to 4 mg may be needed for severe intoxication. 20 to 30 milligrams or more may be required during the first 24 hours.

Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion in 250 cc of saline over a 15 to 30 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5 percent solution in water over not less than two minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 20 - 50 mg/kg. Morphine is an improper treatment.

Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until cholinesterase regeneration has been attained as determined by blood test. For medical emergencies involving this product, call ~~1-323-264-3910~~ 1-888-681-4261.

## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS** Fatal if swallowed, inhaled, or absorbed through the skin. Corrosive. Causes irreversible eye damage. Wear protective eyewear (goggles, face shield or safety glasses). Wear protective clothing and gloves. (Coveralls worn over long-sleeved shirt and long pants, socks, chemical resistant footwear and chemical resistant gloves.) Do not breathe vapor. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, and using tobacco. Remove contaminated clothing and wash before reuse. For handling activities, use either a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

## PRECAUTIONS IN USING

When handling or transferring this product, the following protective clothing and equipment must be worn: coveralls over long-sleeved shirt and long-pants; chemical-resistant gloves such as barrier laminate, butyl, nitrile, or neoprene rubber or viton, chemical-resistant apron, and chemical-resistant footwear; protective eyewear (goggles, face shield or safety glasses); a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). Wash thoroughly with soap and water after handling and before eating or drinking. Remove contaminated clothing and wash before reuse. Chemical-resistant gloves, apron, footwear should be washed with soap and water after each use. Do not use the same gloves for other uses. Destroy and replace gloves frequently. Repeated exposure can lead to an asymptomatic increase in the susceptibility to poisoning. Avoid prolonged exposure to this product. In case of accidental contact, immediately remove contaminated clothing and wash affected skin with soap and hot water. Launder clothing and decontaminate before reuse. Wash legs, arms and hands thoroughly with soap and hot water before eating, drinking or smoking. Bathe or shower at the end of the workday and change into freshly laundered clothing.

## Environmental Hazards

This pesticide is toxic to birds, fish, and other wildlife. Do not contaminate water when cleaning equipment or when disposing of equipment washwaters. Do not discharge effluent into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. Do not discharge effluent into sewer systems without previously notifying sewage treatment plant authorities. For guidance, contact your regional office of the EPA.

## DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Only for formulation into an insecticide.

For the following uses:

1. Terrestrial Food Crops: Corn, field (forage, grain, fodder), pop (grain, fodder), sweet (forage, fodder), and seed
2. Uses for which USEPA has accepted the required data that the formulator has submitted in support of registration.

3. Uses for experimental purposes that are in compliance with USEPA requirements  
Formulators using this product are responsible for obtaining EPA registration of the formulated product.

#### STORAGE AND DISPOSAL

STORE PRODUCT IN ORIGINAL CONTAINER ONLY. Do not contaminate water, other pesticides, fertilizer, food or feed by storage or disposal.

STORAGE: Store in a secure, locked, dry and temperate area where children, unauthorized persons or animals cannot enter. Store in original container. Keep the container closed when not in use. Do not transport or store near food or feed intended for human or animal consumption.

PRODUCT DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or container is a violation of Federal Law. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip.

Repeat this procedure two more times. Offer for recycling, if available.

In case of significant spill, call CHEMTREC at 1-800-424-9300.

#### LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conform to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT, SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

AMVAC Chemical Corporation  
4100 E. Washington Boulevard  
Los Angeles, CA 90023 USA  
1-888-462-6822