

RESTRICTED USE PESTICIDE

DUE TO ACUTE HUMAN, AVIAN, AND AQUATIC INVERTEBRATE TOXICITY

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification

GROUP

1B

INSECTICIDE



For Use On Corn Only

*This product contains a higher concentration of active ingredient than our other SmartChoice granular products. Available in the SMARTBOX®, a Closed Handling and Application System.

TO CONTROL CORN ROOTWORM LARVAE, WIREWORMS, CUTWORMS, SEEDCORN MAGGOTS, WHITE GRUBS, GRAPE COLASPIS, SUGARCANE BEETLE, AND SYMPHYLANS ON FIELD CORN, SEED CORN, SWEET CORN, AND POPCORN.

ACTIVE INGREDIENT:	(% by weight)
Chlorethoxyfos: Phosphorothioic acid, O,O-diethyl O-(1,2,2,2-tetrachloroethyl)ester	12.9%
Bifenthrin: (2-methyl [1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)- 2,2-dimethylcyclo-propanecarboxylate	2.1%
INERT INGREDIENTS:	85.0%
TOTAL:	100.0%

**READ LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN
WARNING AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed:	<ul style="list-style-type: none"> • 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • 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.
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
For Medical Emergencies, phone:.....1-888-681-4261	
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®.....1-800-424-9300	
For Product Use Information phone: AMVAC®.....1-888-462-6822	

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.



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NOTE TO PHYSICIAN

Organophosphate and Pyrethroid

ATROPINE IS THE EMERGENCY ANTIDOTE FOR SMARTCHOICE HC POISONING. 2-PAM IS ALSO ANTIDOTAL AND MAY BE USED IN CONJUNCTION WITH ATROPINE.

Warning Symptoms

SMARTCHOICE HC is an organophosphate insecticide containing a pyrethroid 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. Reversible skin sensations (parasthesia) may occur and ordinary skin salves have been found useful in reducing discomfort.

For medical emergencies involving this product, call 1-888-681-4261.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: May be fatal if swallowed, inhaled or absorbed through the skin. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wear long-sleeved shirt and long pants, socks, chemical-resistant footwear, and chemical-resistant gloves (such as Natural Rubber, Selection Category A). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. For handling activities, use a non-powered air purifying respirator equipped with an N-, R-, or P-series filter. When mixing or loading wear a chemical resistant apron.

Repeated exposure can lead to an asymptomatic increase in the susceptibility to poisoning. Avoid prolonged exposure to the product.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves (except for applicators) such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton® ≥ 14 mils

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. All washable PPE should be washed in detergent and hot water prior to reuse. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS

IMPORTANT: The SMARTBOX (Alternate Wording when packaged in LOCK'N LOAD: LOCK'N LOAD) system when used correctly qualifies as a closed loading system under the WPS.

Loaders using the SMARTBOX (Alternate Wording when packaged in LOCK'N LOAD: LOCK'N LOAD) system must:

- Wear the PPE specified above for loaders
- In addition to wearing the required PPE, have immediately available for use in case of an emergency:
 - A particulate filtering respirator, which includes a NIOSH approved respirator with any R, P, or HE filter or NIOSH approval number prefix TC-84A.

Applicators must be in enclosed cabs and must:

- Wear the PPE specified above for applicators
- In addition to wearing the required PPE, have available for use a particulate filtering respirator, which includes a NIOSH approved respirator with any R, P, or HE filter or NIOSH approval number prefix TC-84A.
- Remove PPE that was worn in the treated area before reentering the cab, and
- Store all PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

USER SAFETY RECOMMENDATIONS

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to wild mammals, birds, fish, and aquatic invertebrates. Do not apply directly to water, or 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 cleaning equipment or disposing of equipment washwaters.

DIRECTIONS FOR USE

RESTRICTED USE PESTICIDE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. The REI is 72 hours where average rainfall is less than 25 inches per year. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Double Notification: Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, Polyvinyl Chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks.

IMPORTANT: Apply this product only as specified on this label. Do not apply this product through any type of irrigation system.

USE INFORMATION

SMARTCHOICE HC is a granular soil insecticide for use on corn (field, sweet, popcorn and seed) at planting for the control of northern, western and southern corn rootworm larvae, wireworms, cutworms, seedcorn maggots, white grubs, sugarcane beetle, grape colaspis and symphylans.

Herbicide Compatibility Information

- All registered corn herbicides may be applied to corn which will be treated or has been treated with SMARTCHOICE HC. SMARTCHOICE HC is not systemic and will not interact with soil applied or postemergence corn herbicides.

APPLICATION INSTRUCTIONS

FIELD CORN, SEED CORN, SWEET CORN, POPCORN		
Pest	Rate	
Cutworms Grape Colaspis White Grubs Wireworms Seedcorn Maggots Symphylans	1.0 to 1.67 ounces per 1,000 feet of row	Crop Rotational Intervals Corn: Anytime Other crops: 30 days
Corn Rootworm Larvae (Northern, Western, Southern) Sugarcane Beetle	1.5 to 1.67 ounces per 1,000 feet of row	
RESTRICTIONS:		
<ul style="list-style-type: none"> • Do not make more than one application per year. 		

Application

Apply SMARTCHOICE HC in-furrow at planting for optimum control of labeled pests. DO NOT apply as a surface band behind the press wheel.

In-Furrow Application at Planting:

Apply SMARTCHOICE HC in conventional, conservation or no-till corn as an in-furrow treatment. Place the applicator tube either directly into or behind the planter shoe, so the granules drop into the open seed furrow and are completely covered with soil. In-furrow application provides optimum control of corn rootworms, wireworms, white grubs, seedcorn maggots, sugarcane beetle, symphylans and grape colaspis.

Further Application Information:

- Under windy conditions, the use of wind shields will help to ensure proper placement of granules.
- The SMARTBOX system must be properly calibrated to assure an accurate application rate of SMARTCHOICE HC.
- SMARTCHOICE HC is non-corrosive to equipment and is nonflammable.

Determining the Amount of SMARTCHOICE HC per Acre

To determine the approximate amount of SMARTCHOICE HC needed per acre, select the use rate per 1,000 row feet and the row spacing as shown in the following chart:

Amount of SMARTCHOICE HC per 1,000 feet of row	Pounds of SMARTCHOICE HC Required per Acre at Various Row Spacings						
	15 in or 30 in twin row	20 in	22 in	30 in	34 in	36 in	40 in
1.00 oz.	2.2	1.6	1.5	1.1	1.0	0.9	0.8
1.17 oz.	2.6	1.9	1.7	1.3	1.2	1.1	1.0
1.50 oz.	3.3	2.5	2.2	1.6	1.5	1.4	1.2
1.67 oz.	3.6	2.7	2.5	1.8	1.6	1.5	1.4

SMARTBOX INFORMATION

SMARTCHOICE HC must be applied with the SMARTBOX system. Please refer to the SMARTBOX operator's manual for detailed information on system operation and calibration procedures.

DO NOT ATTEMPT TO OPEN OR TAMPER WITH THE CONTAINER. DO NOT ATTEMPT TO REPAIR THE SMARTBOX APPLICATION SYSTEM. IF REPAIRS ARE NECESSARY, CONTACT YOUR AMVAC SALES REPRESENTATIVE OR THE MANUFACTURER OF THE APPLICATION SYSTEM.

Resistance

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the required dosages fail to suppress the pest population below the economic threshold. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of active classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local agricultural authorities for details.

Integrated Pest Management

AMVAC recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

STORAGE AND DISPOSAL

STORAGE: Store in a secure, locked, dry and temperate area where children, unauthorized persons or animals cannot enter. Keep the container capped when not in use. Do not transport or store near food or feed intended for human or animal consumption. Do not use or store in or around the home. Do not contaminate water, other pesticides, fertilizer, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or container is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact our State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: DO NOT DISCARD THE CONTAINER. Do not attempt to open or tamper with the container. Completely empty container into application equipment. All SMARTBOX containers must be returned per instructions provided or by calling 1-888-SMARTBOX. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.

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