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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
34704-710

Date of Issuance:
JAN 8 - 1993

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Holdem Insecticide-Nematicide

(under FIFRA, as amended)

Name and Address of Registrant (Include ZIP Code)

Platte Chemical Co.
P. O. Box 667
Greeley, CO. 80632-0667

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes before you release the product for shipment:

- a. Add the phrase "EPA Registration No.34704-710".
- b. Revise the restricted use statement to include inhalation and eye absorption so that it reads as follows:
"Due to acute oral, dermal and inhalation toxicity; eye absorption; and avian hazards"

Signature of Approving Official:

Date:

JAN 8 - 1993

c. Revise the statement, "Fatal if swallowed, inhaled, or absorbed through the skin" to read as follows:
"Fatal if swallowed, inhaled, or absorbed through the skin or eyes".

d. Add the statement, "Do not breathe dust" to the first paragraph under the heading, "Danger".

e. Delete the second and third paragraphs under the heading "Danger" starting with the sentence "Wear freshly laundered _____" and ending with the sentence, "Bathe at the end of the work day and _____".

The statements contained in these paragraphs are either redundant or are in conflict with the statements required under the Phorate Registration Standard. The required statements appear on your label under the headings, "Personal Protective Equipment" and "Work Safety Rules".

f. Relocate the instructions to wear a pesticide respirator to the paragraph headed, "Personal Protective Equipment".

g. Add a statement limiting the number of applications to a maximum of two per season.

h. Revise the "Environmental Hazards" statements to read as follows:

"This pesticide is extremely toxic to 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. Collect and incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water when disposing of equipment washwater or rinsate. The pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning."

i. The word "POISON" must appear on the front panel in red on a contrasting background.

3. Submit the following information for our files within 6 months from the date of this Notice:

Explain the discrepancy between the density stated on your Confidential Statement of Formula (50 lbs./cu. ft.) and that stated on your data matrix (.888 g./ml).

4. Submit two copies of the revised final printed label before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

3045

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

The submitted product specific acute toxicity studies and the ecological effects studies conducted on the subject formulated product are acceptable and copies of the evaluations of these studies are enclosed for your files.

You are reminded that after April 21, 1994, your product must bear labeling statements as specified in the Federal Register of August 21, 1992 for worker protection (40 CFR Parts 156 and 170).

Sincerely yours,



Robert A. Forrest
Product Manager (14)
Insecticide- Rodenticide Branch
Registration Division (H7504C)

RESTRICTED USE PESTICIDE

DOE TO ACUTE ORAL AND DERMAL TOXICITY, AND AVIAN HAZARDS. 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 APPLICATION.

ACCEPTED with COMMENTS in EPA Letter Dated: JAN 8 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this pesticide is registered, for the purposes intended, for the uses specified hereunder under EPA Reg. 34704-10

HOLDEMTM

Insecticide-Nematicide

ACTIVE INGREDIENTS:

Ethoprop (O-Ethyl S,S-Dipropyl Phosphorodithioate)	10.0%
Phorate (O,O-diethyl S-[(ethythio) methyl] phosphorodithioate)	10.0%
INERT INGREDIENTS:	80.0%
TOTAL	100.0%

CALL A PHYSICIAN AT ONCE IN ALL CASES OF SUSPECTED POISONING.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Give 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician, Poison Control Center, or hospital emergency room. If not breathing, give mouth to mouth artificial respiration.

IN CASE OF SKIN CONTACT: Immediately remove all contaminated clothing, and wash skin with soap and water. Wash clothing before reuse. Discard contaminated shoes.

FOR EYES: Flush with plenty of water for at least 15 minutes. Call a physician immediately in all cases of suspected poisoning.

IF INHALED: Remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention immediately.

Persons providing first aid should prevent contamination of themselves.

NOTE TO PHYSICIAN: This product is a cholinesterase inhibitor. Severe symptoms and signs include diarrhea, pinpoint and non-reactive pupils, respiratory difficulty, pulmonary edema, cyanosis, loss of sphincter control, convulsions, and coma.

Support respiration as needed. Measures should include removal of secretions, maintenance of a patent airway, and if necessary, artificial ventilation.

If cyanosis is absent, give ATROPINE 2-4 mg intravenously (0.05 mg/kg for children). Repeat ATROPINE at 5-10 minute intervals until atropinization occurs (dry, flushed skin, tachycardia, pupillary dilatation), and maintain for 48 hours. If cyanotic, give initial ATROPINE intramuscularly and start measures to improve ventilation.

Start 2-PAM (PROTOPAM, Ayerst) at the same time. Give 1-2 grams PROTOPAM (20-40 mg/kg for children) in 100cc saline over 15-30 minutes. If pulmonary edema is present, give intravenously slowly as a 5% solution in water over a period of at least 5 minutes.

A second dose may be given after one hour if muscle weakness persists. Additional doses may be given cautiously for persistent muscle weakness. May be given by intramuscular or subcutaneous routes if intravenous administration is not feasible.

In case of skin contact wash patient with soap and water followed by wash with 95% ethyl alcohol. Keep patient under constant observation for 24-36 hours. Symptoms may persist for one month.

The use of theophylline, morphine, barbiturates, phenothiazines, reserpine, and succinyl choline is contraindicated.

Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife. Birds feeding in treated areas may be killed. Do not apply directly to water or wetlands (swamps, bogs, marshes, and pot-holes). Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Collect or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water when disposing of equipment washwaters.

This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

PERSONAL PROTECTIVE EQUIPMENT

WEAR THE FOLLOWING PROTECTIVE CLOTHING DURING LOADING, APPLICATION, EQUIPMENT REPAIR/CLEANING, AND DISPOSAL OF THE PESTICIDE. A protective suit of one or two pieces covering all parts of the body except head, hands, and feet; chemical resistant gloves; chemical resistant shoes, shoe covering, or boots. Unless a chemical resistant protective suit is otherwise required, mixers/loaders must wear a chemical resistant apron and goggles or a face shield.

KEEP OUT OF REACH OF CHILDREN

ANGER POISON



PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada completamente.

See Below For Antidote and Other Precautions.

NOT FOR USE OR STORAGE IN OR AROUND THE HOME.

EPA REG. NO. 34704-

EPA EST. NO.

NET WEIGHT 50 POUNDS

29833

EXP06A91

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Fatal if swallowed, inhaled, or absorbed through the skin. DO NOT get in eyes, on skin, or on clothing. Rapidly absorbed through skin. Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to poisoning.

Wear freshly laundered, long-sleeved work clothing daily. While transferring from package to equipment, wear a clean cap and gloves (rubber or cotton). If cotton gloves are used, they must be laundered or discarded after each day's use. Rubber gloves should be washed with soap and water after each use. Do not wear the same gloves for other work. Destroy and replace gloves frequently. When applying product, wear protective clothing, gloves and goggles.

In case of contact, immediately remove contaminated clothing and wash skin thoroughly with soap and water. Launder clothing before re-use. Wash thoroughly with soap and water before eating or smoking. Bathe at the end of the work day and change outer clothing.

DO NOT BREATHE DUST. Wear a pesticide respirator jointly approved by the Mine Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part 11 for organic phosphorus protection. While emptying bags into equipment, pour downwind and allow as little free fall as possible. Do not pour at face level.

DO NOT CONTAMINATE FOOD OR FEED PRODUCTS. Once a bag has been opened, use it completely. Make sure that the hoppers of equipment are emptied while still in the field. Keep all unprotected persons out of operating areas.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

SYMPTOMS OF POISONING: Nausea, vomiting, abdominal cramps, diarrhea, excessive salivation, headache, dizziness, weakness, blurring or dimness of vision, excessive tearing, loss of muscular coordination, slurring of speech, twitching of muscles (especially of tongue and eyelids), mental confusion, disorientation, drowsiness, difficulty in breathing (chest tightness), runny nose.

BEST AVAILABLE COPY

HOLDEM™ INSECTICIDE-NEMATICIDE

EPA REG. NO. 34704-

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATE: Long-sleeved shirt and long-legged pants; shoes and socks. Chemical resistant gloves must be available in the cab and must be worn when exiting. This clothing is inadequate to protect you during equipment repair or cleaning, reentry, or pesticide disposal work. Do not allow contaminated clothing to come in contact with the insides of the cab.

IMPORTANT! If pesticide comes in contact with skin, wash off with soap and water. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or using the toilet.

AFTER WORK: Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear clean clothes. Do not reuse contaminated clothing. Personal clothing worn during work must be laundered separately from household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Clothing and protection equipment heavily contaminated must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

WORK SAFETY RULES

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

Persons working with this product should have frequent blood tests of their cholinesterase levels. If the cholinesterase level falls below a critical point, no further exposure should be allowed until it has been determined by means of blood tests that the cholinesterase level has returned to normal. Before using this product consult the National Pesticide Telecommunications Network for recommendations regarding blood tests, poisoning management, emergency treatment, and information regarding the toxicity of phorate. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-8181.

If handled indoors provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pets away from treated areas or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See First Aid (Practical Treatment) section.

DIRECTIONS FOR USE

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

IMPORTANT! Read precautionary statements before using this product. Do not apply this product in such a manner as to directly or through drift expose workers or other persons.

The area being treated must be vacated by unprotected persons. This product should be applied with a granular pesticide applicator properly calibrated to assure accurate placement and proper dosage.

REENTRY STATEMENT

After dusts have settled, do not enter or allow entry into the treated area until the 48 hour reentry interval has expired, unless the person entering the treated area is wearing the personal protective equipment listed below for early reentry.

For early reentry into treated areas wear a protective suit of one or two pieces covering all parts of the body except head, hands, and feet; chemical-resistant gloves and chemical resistant shoes, shoe coverings, or boots. Because certain states may require more restrictive reentry intervals for various crops treated with this product consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written or oral warnings must include the following information:

DANGER

(insert area or field description) treated with phorate and ethoprop on (insert date of application). Do not enter treated areas for 48 hours unless appropriate protective clothing, goggles and gloves are worn. In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to phorate and ethoprop and describe his condition. For further information see the "STATEMENT OF PRACTICAL TREATMENT" portion of the pesticide label.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly. Such conditions include, but are not limited to, positioning of the container in storage, storage temperature, potential for crushing or damage due to stacking, and penetration of moisture.

STORAGE: Store in safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Once a bag has been opened, use it completely. Reduce stacking height where local conditions, such as humidity or pallet overhang, can affect package strength. Personnel should use clothing and equipment listed under "PRECAUTIONARY STATEMENTS" when handling open containers.

SPILLED MATERIAL: Block to prevent spreading of spill. Scoop and sweep into a disposable container, whether it occurs indoors, or in the field.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CORN (Field, Sweet): May be used in corn grown for grain or silage.

BAND AT PLANTING APPLICATION: For the control of corn rootworm larvae, mites, seed corn beetle, wireworms, cutworms, symphylans, nematodes, and suppression of white grubs apply 3 to 10 ounces per 1,000 linear feet of row. Apply as a 6 to 8 inch band at planting. Incorporate into the top one half to one inch of soil by making application ahead of the press wheel or by dragging a short length of chain behind the press wheels. Do not apply in-furrow or allow to come in direct contact with the seed.

BAND AT CULTIVATION APPLICATION: For the control of corn rootworm larvae apply 3-10 ounces per 1,000 linear feet of row. Cover the treated band with 2 to 3 inches of soil by making application immediately ahead of disc tillers or cultivation equipment. Make application in May or June when activity of rootworm larvae is first observed. Do not apply within 45 days of harvest or feed or graze livestock within 30 days of treatment.

The minimum row spacing allowed for corn is 30 inches.

NOTICE

Platte warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of the product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Platte. In no case shall Platte be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Platte makes no warranties of Merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

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FORMULATED FOR
PLATTE CHEMICAL CO
150 SO. MAIN STREET FREMONT, NEBRASKA 68025