



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

AUG 22 1991

ICI Americas Inc.
Agricultural Products
Wilmington, DE 19808

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

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Dear Mr. Theodorakis:

Subject: Dyfonate 5-G
EPA Registration no. 10182-209
Your Application for Pesticide Amendment
Dated May 15, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the labeling change listed below before you release the product for shipment bearing the revised labeling:

- The Environmental Hazards statement, "Do not apply directly to water or wetlands", must be changed to

"Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

2. Submit a copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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.

Sincerely yours,

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

enclosure

MADDEN DISK 1 8/22/91

ACCEPTED
with COMMENTS
by EPA on 8/1/91 Dated:



AUG 22 1991

Under the Fungicide, Insecticide, and Plant Growth Regulator Act, as amended, and the Federal Insecticide, Fungicide, and Plant Growth Regulator Act, registered under EPA registration number

10182-209

CRUSADE • 5G
Granular Insecticide

For use by commercial applicators and turf management personnel ~~only~~ on golf courses and sod farm turf for insect control.

ACTIVE INGREDIENT:

% by Wgt.

Fonofos:

O-ethyl s-phenyl ethylphosphonodithioate

5%

INERT INGREDIENTS

95%

100%

Contains 5 pounds active ingredient per 100 pounds

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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

STATEMENT OF PRACTICAL TREATMENT

ALWAYS CALL A PHYSICIAN IN CASE OF SUSPECTED POISONING. ATROPINE BY INJECTION IS ANTIDOTAL.

CALL A PHYSICIAN IMMEDIATELY. If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop. Immediately start the procedures given below and simultaneously contact a poison center, a physician, or the nearest hospital.

Note: Be sure to advise the person contacted that the compound is a cholinesterase inhibitor. Describe the type of exposure, the victim's symptoms and follow advice given.

POISON SYMPTOMS:

CRUSADE 5G is a highly toxic cholinesterase inhibitor. Symptoms of poisoning include headache, blurred vision, weakness, nausea, discomfort in the chest, abdominal cramps, vomiting, diarrhea, salivation, sweating and pinpoint pupils.

IF SWALLOWED: Immediately give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF ON SKIN: Flush with large amounts of running water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before re-use.

IF IN EYES: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to insure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

IF INHALED: Remove to fresh air. If not breathing, clear victim's airway and start mouth-to-mouth artificial respiration. If Breathing is Difficult, give oxygen, preferably with a physician's advice. Get medical attention immediately.



FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

INFORMATION FOR MEDICAL PERSONNEL

Initial measures include removal of secretions, maintenance of a patent airway, and, if necessary, artificial respiration. *When cyanosis is relieved*, atropine by injection is antidotal and may be administered in large therapeutic doses, repeated as necessary to the point of tolerance. If symptoms warrant further treatment, 2-PAM (Protopam Chloride) has shown utility as *adjunctive* therapy. Never use morphine. Continued absorption of the poison may occur, resulting in fatal relapse after initial improvement; *very close supervision of the patient is indicated for at least 48 to 72 hours.*

EPA Reg. No. 10182-209

(US Pat. No. 2,988,474)

EPA Est. No.

Net Weight

ICI Professional Products
ICI Americas Inc.
Wilmington, DE 19897



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. RAPIDLY ABSORBED THROUGH THE SKIN. DO NOT GET IN THE EYES, ON SKIN, OR ON CLOTHING. AVOID BREATHING OF DUST.

Wear rubber gloves, shoes, protective clothing and goggles when handling or applying. Wash hands, arms, and face thoroughly with soap and water after handling and before eating or smoking. Routinely shower or bathe after work and wash all clothing with soap and hot water before reusing. In case of contact, immediately remove contaminated clothing and wash thoroughly with soap and water.

Do not transport or store CRUSADE 5G with any food or feed intended for human or animal consumption.

Do not use or store in or around the home.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Birds feeding in treated areas may be killed. Remove or cover granules if spills occur. Runoff from treated areas may be hazardous to fish in neighboring areas. Do not apply directly to water or wetlands.

Do not contaminate water when disposing of equipment washwaters. For guidance, contact your regional office of the EPA. Apply this product only as specified on the label.

IN CASE OF SPILL:

Isolate the spill. Hold this package, other cargo and vehicles involved. IMMEDIATELY call CHEMTREC for 24-hour emergency assistance at 1-800-424-9300.

GENERAL PRECAUTIONS

Read all directions before using.

Do not apply on any crop, or in any manner not specified on this label.

Do not mow treated turf before irrigation or rainfall.

Do not graze treated turf or use clippings from treated areas for forage or feed.

Keep children and pets off treated areas until dry.



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DIRECTIONS FOR USE

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

Do not allow people or pets on treated area unless grass is dry.

CRUSADE® 5G Granular Insecticide may be used to control insects in professional turf areas. This consists of golf course turf and commercial sod growing areas. The insects controlled and rates are as follows:

CROP	TARGET INSECT	RATE	COMMENTS
Turfgrass	White grub larvae (such as Japanese beetle, black turfgrass ataenius, chafers, <i>Phyllophaga</i> spp., green June beetle, Asiatic garden beetle). Mole crickets Billbugs	80 lb/A or 1.8 lb/1000 sq ft	Irrigate treated area with ¼ to ½ inch of water after application. Avoid runoff. Do not prewater. Repeat as needed to keep local infestations under control. Consult your local turf, State Agricultural Experiment Station or State Extension Service Specialist for additional control recommendations.
	Chinch bugs, Cutworms Earwigs, Sod webworms	60-80 lb/A or 1.5-1.8lb/1000 sq. ft.	For optimum results, irrigate treatment for 10-15 minutes following application. Consult your local turf, State Agricultural Experiment Station or State Extension Service Specialist for additional control recommendations. Repeat as needed to keep local infestation under control.



STORAGE AND DISPOSAL

PROHIBITIONS

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

STORAGE

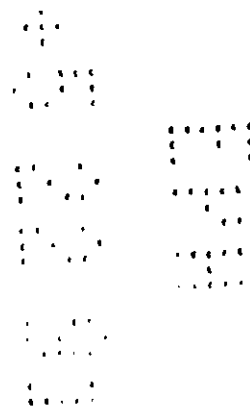
Do not transport or store with any food or feed intended for human or animal consumption. Not for use or storage in or around the home.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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.





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IMPORTANT: Read the Entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. **SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.**

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The **EXCLUSIVE REMEDY OF BUYER OR USER** and the **LIMIT OF LIABILITY** of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. **SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.**

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States of America.

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