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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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22 DEC 1992

Mr. James M. Wagner
Regulatory Manager, EPA
ICI Americas, Inc.
Agricultural Products Department
Concord Pike & New Murphy Road
Wilmington, Delaware 19897

Dear Mr. Wagner:

Subject: Review of Tefluthrin Crop Rotation Study
-Proposed Revised Labeling (Rotational Crop Statement)
-Storage Stability of Soil Metabolites
-Adsorption/Desorption Coefficient (Kd)
New Formulation
FORCE 1.5 Insecticide
EPA Registration Number 10182-130
Your Submissions Dated March 16 and 20, and
April 1, 1992

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is accepted.

Our review of the field accumulation in rotational crops (GRN §165-2) data requirement for the pesticide chemical "Tefluthrin" conclude that the study is scientifically sound and meets the guideline requirements at the maximum application rate of 1 ounce/100 foot-row.

The storage stability study is also acceptable and can be used as supplemental information to support the rotational crops study. For detailed considerations, please refer to the enclosed EPA's Environmental Fate and GroundWater Branch review dated November 9, 1992, which was picked up by Ms. Cheryl Bohonick of ICI Americas, Inc. on November 12, 1992.

We have reviewed The Distribution of Tefluthrin Between the Adsorbed and Dissolved Phases in Runoff, Volume 134, GRN 163. The work appears accurate and complete and we agree with the findings of the study and model that ICI has developed.

CONCURRENCES

SYMBOL								
SURNAME								
TE								

A copy of the approved labeling is enclosed for your records.

Sincerely Yours,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure:

RESTRICTED USE PESTICIDE
Toxic to fish and aquatic organisms.

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.

FORCE® 1.5G INSECTICIDE

For Use to Control Insects on Field Corn, Popcorn, and Seedcorn

ACTIVE INGREDIENT

Tefluthrin

(2,3,5,6-tetrafluoro-4-methylphenyl)methyl-(1 α ,3 α)-(Z-(±))-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate 1.5%

INERT INGREDIENTS 98.5%

Total 100.0%

Contains 1.5 lbs. active ingredient per 100 lbs. of granular insecticide

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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

**See Back Panel for Additional Precautionary Statements
and Statement of Practical Treatment.**

EPA Reg. No. 10182-130
EPA Est. No. 33560-TN-1

Net Contents: 50 lbs.

Made in U.S.A.
ICI Agricultural Products
CI Americas Inc.
Wilmington, DE 19897

ACCEPTED
with COMMENTS
in EPA Letter Dated

22 DEC 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
10182-130

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything to an unconscious person.

IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

**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.**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

CAUSES EYE INJURY. Do not get in eyes or on clothing. **HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.** AVOID contact with skin. AVOID breathing dust. WEAR goggles or face shield when handling. WASH thoroughly with soap and water after handling. REMOVE contaminated clothing and wash before reuse.

Skin exposure may result in a transient sensation described as a tingling, itching, burning or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2-30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

ENVIRONMENTAL HAZARDS

This pesticide is very highly toxic to freshwater and estuarine fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

ENDANGERED SPECIES RESTRICTIONS

This product may pose a hazard to endangered aquatic species. Follow all use directions.

DIRECTIONS FOR USE

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

~~DO NOT ROTATE TO CROPS OTHER THAN SOYBEANS OR CORN. SOYBEANS MAY BE PLANTED 12 MONTHS AFTER APPLICATION OF FORCE® 1.5G INSECTICIDE.~~

GENERAL INSTRUCTIONS

Runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not apply this product within 20 yards of water (ponds, streams or lakes.)

Cover or incorporate spills.

ROTATIONAL CROPS

Rotational crops may be planted no sooner than 30 days after application.

DIRECTIONS FOR APPLICATION

At Planting Band Treatment

Apply FORCE 1.5G at planting time. Place the granules in a 7-inch wide band over the row behind the planter shoe, and in front of or behind the press wheel.

GRANULES MUST BE INCORPORATED INTO THE TOP ONE INCH OF SOIL USING TINES, CHAINS OR OTHER SUITABLE EQUIPMENT.

DO NOT apply this product as either a band or T-band treatment unless you can incorporate the granules as directed above. This will improve insect control and reduce the potential for adverse effects to aquatic organisms.

For **NO-TILL** corn where runoff drains into adjacent or neighboring aquatic sites (ponds, streams, lakes), apply FORCE 1.5G as an in-furrow treatment only. See in-furrow directions below.

At Planting In-Furrow Treatment

Apply FORCE 1.5G at planting time as an in-furrow treatment for control of corn rootworms, wireworms, and seedcorn maggots. In-furrow applications may be made by (1) directing the granules into the planter shoe with the seed, or (2) placing the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow.

**ENCLOSED IS AN
 IMPORTANT
 INFORMATION BULLETIN
 READ PRIOR TO PRODUCT USE**

FORCE 1.5G RATE RECOMMENDATIONS			
Time of Application	Controlled	(oz/1000 ft of row)	Application
At Planting	Western Corn Rootworm Northern Corn Rootworm Southern Corn Rootworm Cutworms ¹ Seedcorn Maggot Seedcorn Beetle Lesser Cornstalk Borer White Grubs ² Wireworms ³	8-10 Banded or In-Furrow	BANDED - Place granules in a 7-inch band directly behind planter shoe in front of or behind the press wheel. IN-FURROW - Place granules directly in the seed furrow behind the planter shoe.

¹Includes Black cutworm.

²Use 10 oz/1000 ft. of row for severe infestations.

³For best wireworm control, apply the granules as an in-furrow treatment.

CALIBRATION TABLE							
Amount of FORCE 1.5G/1000 ft of row	Pounds of FORCE 1.5G Required Per Acre for Various Row Spacings						
	13,068	13,756	14,520	15,374	16,335	17,424	Linear Ft./A
	40"	38"	36"	34"	32"	30"	Row Spacing
8 oz	6.5	6.9	7.3	7.7	8.2	8.7	
10 oz	8.2	8.6	9.1	9.6	10.2	10.9	

GAUGE SETTINGS FOR FORCE 1.5G INSECTICIDE APPLICATION					
Speed MPH	4		6		
APPLICATION RATE/1000 Row Feet (Oz/1000 Row Feet)	8	10	8	10	
Applicator					
Gandy bolt-on bottom	18	21	23	25	
Gandy snap-on bottom	19	21	22	25	
Noble (round opening)	12	14	17	21	
Noble (rectangular opening)	8	10	11	14	
John Deere 1986 Maxi-Emerge II (adjustable knob 0-79)	17	21	25	32	
John Deere 7000 Maxi-Emerge (Even) (0-10-20-30-40)	14	17	20	24	
John Deere 7000 Maxi-Emerge (Odd) (5-15-25-35-45)	11	13	15	17	
John Deere (metal box with 3 range settings and dial) Range/Notch	1/27	1/30	2/4	2/11	
International Harvester (one gauge per hopper) Gate/Dial	1/8	2/0	2/3	2/7	
International Harvester (two gauges per hopper) Gate/Dial	2/1	2/3	2/6	3/0	
Buffalo (with gauge)	10	12	15	18	
Buffalo (fluted-roll feed-revolutions on hexagonal adjusting nut)	5-1/6	6-1/2	UNIFORM FLOW AT ALL SPEEDS		
Allis Chalmers (old)	7	8	UNIFORM FLOW AT ALL SPEEDS		
Allis Chalmers (new, with Noble metering unit)	10	12	13	16	

NOTE: These settings should be used as starting points only. Continually check the amount of FORCE 1.5G used against a known length of adjustments accordingly. Also, check calibration occasionally to make sure equipment wear, changing conditions, etc., have not caused a change.

RECOMMENDATION: Waste 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. When bag is empty dispose of in a sanitary landfill, by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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.

FORCE® is a trademark of an ICI Group Company.