

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

14 MAR 1995

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Mr. Andrew A. Davidson
Zeneca Ag Products
1800 Concord Pike
Wilmington, DE 19897

Dear Mr. Davidson:

Subject: Amendment - Acute Toxicity Data to Support Signal Word
Change and Addition of Pests (including Red Imported
Fire Ants)
FORCE® 1.5 Insecticide
EPA Registration Number 10182-130
Your Letters Dated March 23 and April 7, 1994

The amendment referred to above, submitted in connection with
registration under FIFRA sec. 3(c)(7)(B)(C), is acceptable provided
that you:

1. Make the label changes listed below:

- a. Based on the results of our review of the subject
acute toxicity data, the precautionary statements
and Statement of Practical Treatment must be
revised as follows:

CAUTION: Harmful if swallowed or absorbed through
skin. Causes moderate eye irritation. Avoid
contact with eyes, skin or clothing. Wash
thoroughly with soap and water after handling.
Remove contaminated clothing and wash before reuse.
Prolonged or frequently repeated skin contact may
cause allergic reactions in some individuals.

- b. ~~Although~~ ^{Since} the dermal sensitization study has been
classified as supplementary, we cannot conclude
that this product is not a sensitizer. Therefore
the statement "Prolonged or frequently repeated
skin contact may cause allergic reactions in some
individuals." must be added to the labeling. You
have the option of accepting the classification as
a sensitizer or performing another dermal
sensitization study to support a non-sensitizer
classification.

CONCURRENCES							
SYMBOL							
SURNAME	COA						
DATE							

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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.

Sincerely yours,

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (7505C)

) Enclosure

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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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)-(\pm)-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

CAUTION

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.)~~

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

EPA Reg. No. 10182-130
EPA Est. No. 10182-NB-1

Net Contents: 50 lbs.

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, DE 19897

ACCEPTED
with COMMENTS
In EPA Letter Dated

14 MAR 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the product
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 ON SKIN: Wash with plenty of soap and water. Get medical attention. ~~if irritation persists.~~

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

IF IN EYES: Flush eyes with plenty of water. ~~Get medical attention if irritation persists.~~ Call a physician 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 CAUTION

~~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.~~

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES MODERATE EYE IRRITATION. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

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 apparent skin damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

Personal Protective Equipment

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- ~~Protective eyewear~~

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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.

**CONDITIONS OF SALE
AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

) ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. 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 or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

) In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

BEST COPY AVAILABLE

DIRECTIONS FOR USE

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), notification to workers, 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. 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.

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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Do not store or use in or around the home. Store in original containers only. In case of spill on floor or paved surfaces, sweep up and remove to chemical waste area.

PESTICIDE DISPOSAL: 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.

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 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.

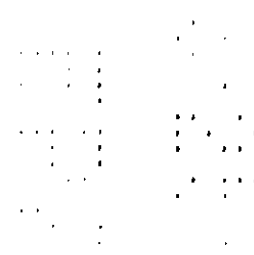
FORCE 1.5G RATE RECOMMENDATIONS			
Time of Application	Insects Controlled	Rate: (oz/1000 ft of row)	Application
At Planting	Western Corn Rootworm Northern Corn Rootworm Southern Corn Rootworm Mexican Corn Rootworm Cutworms Seedcorn Maggot Seedcorn Beetle Lesser Cornstalk Borer White Grubs ¹ Wireworms ²	8-10 Banded, T-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.
	Chinch Bug ³ Billbugs ³ Red Imported Fire Ant ³	8-10 Banded, T-banded	
	Cutworms	6 Banded or T-banded Only First year corn only	

¹Use 10 oz/1000 ft. of row for severe infestations.

²For best wireworm control, apply the granules as an in-furrow treatment.

³Suppression only.

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
6 oz	5.0	5.2	5.5	5.8	6.1	6.5	
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	



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FORCE 1.5G Clay Container
FOR130CC.RSD - RS-032194D

GAUGE SETTINGS FOR FORCE 1.5G INSECTICIDE APPLICATION									
Speed MPH	4			6			8		
APPLICATION RATE/1000 Row Feet (Oz/1000 Row Feet)	6	8	10	6	8	10	6	8	10
Applicator									
Kinze	9	11	14	13	17	21	17	22	26
Allis Chalmers (New, with noble metering unit)	11	13	15	14	17	20	17	21	24
Allis Chalmers (Old; fluted roll drive with notched gauge)	6	8	10	UNIFORM FLOW AT ALL SPEEDS					
Buffalo (10-20-30-40)	9	13	16	14	19	22	19	23	27
Buffalo (fluted-roll feed-revolutions on hexagonal adjusting nut)	6	8	10	UNIFORM FLOW AT ALL SPEEDS					
Gandy bolt-on bottom	20	22	24	23	27	30	27	31	34
Gandy snap-on bottom	19	22	24	23	26	30	26	31	34
International Harvester (one gauge per hopper; Gate/Dial) - Old	2/5	2/9	3/2	3/0	3/5	4/0	3/5	4/2	5/0
International Harvester (two gauges per hopper; Gate/Dial) - New	2/1	2/4	2/8	2/6	3/1	3/7	3/1	3/9	4/6
John Deere 7000 Maxi-Emerge (Even) (0-10-20-30-40)	14	18	22	20	25	29	25	30	32
John Deere 7000 Maxi-Emerge (Odd) (5-15-25-35-45)	12	15	17	16	18	21	18	21	25
John Deere 4085 Maxi-Emerge (adjustable knob dial 0-79)	18	22	28	25	33	41	33	42	48
John Deere (metal box with 3 range settings and dial: Range/Notch)	1/26	1/33	2/5	2/3	2/6	2/15	2/9	2/17	2/26
Noble (round opening) - Old	12	15	18	17	21	25	21	26	31
Noble White Planter (rectangular opening) - New	8	10	12	11	14	17	14	18	22

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

FORCE® is a trademark of a ZENECA Group Company.