



PM 14 241-238 10/14  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

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JUN 13 1996

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr. John J. Wrubel  
Product Registrations Manager  
American Cyanamid Company  
Agricultural Research Division  
P.O. Box 400  
Princeton, NJ 08543-0400

Dear Mr. Wrubel:

Subject: Revisions In Use Directions  
Counter 15 G Systemic Insecticide  
EPA Reg. No. 241-238  
Your Application Dated August 21, 1995

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

Submit one copy of your final printed label incorporating the following corrections before you release the product for shipment.

1. Clarify the applicability of the heading, "For field corn only: (excluding field corn grown for seed) by relocating this statement and the applicable Beacon recommendation including the American Cyanamid recommendation regarding Beacon, to the bottom-most position in the remarks column for corn. Though your correspondence indicated that this heading applied only to the Beacon use recommendations, this was not clear on the submitted label.

2. The word "POISON" must appear on the front panel of the label in red on a contrasting background with the skull and crossbones in immediate proximity.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of this condition.

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



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

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It is noted, as stated in your letter of September 1, 1995 that a proposal to increase the sorghum forage and fodder tolerance from 0.5 ppm to 1.0 ppm will be submitted under separate cover.

Sincerely yours,

Robert A. Forrest  
Product Manager (14)  
Insecticide-Rodenticide Branch  
Registration Division (7504C)

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**RESTRICTED USE PESTICIDE**  
 Due to acute oral and dermal toxicity.

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

American Cyanamid Company endorses Certification to promote the responsible use of pesticides to insure the protection of man and the environment.

ACCEPTED  
 with COMMENTS  
 in EPA Letter Dated

JUN 13 1996

**COUNTER® 15G**  
 systemic insecticide nematicide

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 241-238

**FOR USE IN FIELD CORN, POPCORN, SWEET CORN, SUGAR BEETS, AND GRAIN SORGHUM**

Active Ingredient:		
terbufos: S-[[[(1,1-dimethylethyl)thio]methyl] 0,0-diethyl phosphorodithioate .....		15.0%
Inert Ingredients: .....		85.0%
	Total	100.0%

EPA Reg. No. 241-238

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN  
 DANGER/PELIGRO!  
 POISON**

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

**STATEMENT OF PRACTICAL TREATMENT**

**Organophosphate**

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

If **swallowed**, drink one or two 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. Avoid alcohol. Get medical attention.

If **inhaled**, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

If **on skin**, wash thoroughly with soap and water.

If **in eyes**, immediately flush eyes with plenty of water. Get medical attention.

Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to poisoning. Antidote: Atropine is an antidote.

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**NOTE TO PHYSICIANS:** Warning symptoms include weakness, headache, tightness in chest, blurred vision, non-reactive pinpoint pupils, salivation, nausea, vomiting, diarrhea, and abdominal cramps. Give atropine intramuscularly or intravenously, depending on severity of poisoning, 2 to 4 milligrams every 10 minutes until fully atropinized as shown by dilated pupils, dry flushed skin and tachycardia. Twenty to thirty milligrams, or more, may be required during the first 24 hours. Never give opiates or phenothiazine tranquilizers. Clear chest by postural drainage. Artificial respiration or oxygen administration may be necessary. Observe patient continuously for at least 48 hours. Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests.

Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

**See Back Panel For Additional Precautionary Statements.**

SOLD BY  
American Cyanamid Company  
Agricultural Products Division  
Crop Protection Chemicals Department  
Wayne, NJ 07470 1995

Net Weight: 50 lbs.  
22.68 kg.

7/95

® Registered Trademark of American Cyanamid Company

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER!**

Fatal if swallowed, inhaled, or absorbed through the skin. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

**Do Not Breathe Dust**

While emptying bags into equipment, pour downwind and allow as little free fall as possible. Do not pour at face level and do not allow dust to reach the breathing zone.

**Do Not Contaminate Food or Feed Products**

Once a bag has been opened, use it completely. Make sure the hoppers are emptied while still in the field. Refer to STORAGE AND DISPOSAL statement for further instructions.

Keep Out of Reach of Domestic Animals.

Not For Use or Storage In or Around the Home.

**WORK SAFETY RULES**

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SENSITIVITY 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 Telecommunication Network for recommendations regarding such blood tests, poisoning management, emergency treatment, and other information regarding the toxicity of terbufos. The toll-free number for the National Pesticide Telecommunication Network is 1-800-858-7378.

If handled indoors, provide mechanical exhaust ventilation.

Keep all unprotected person, 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 Statement of Practical Treatment section.

**Personal Protective Equipment (PPE):**

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment. If no such instructions for washables, use detergent and hot water. Keep and wash Personal Protective Equipment separately from other laundry. Discard clothing and other absorbent materials that have been heavily contaminated with this product. Do not reuse them.

When handlers use closed systems or enclosed cabs, 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:

- *Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.*
- *Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.*
- *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 extremely toxic to fish and wildlife. Birds and wild mammals utilizing treated fields may be killed.

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 and drift from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment wash water. Cover or incorporate granules that are spilled during mixing and loading.

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IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS  
PRODUCT CALL COLLECT, DAY OR NIGHT, AREA CODE 201-835-3100.

### 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, whether 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 to pesticide regulation. This label must be in the possession of the user at the time of pesticide application.

### 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. Each 48-hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a 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.

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

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

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

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## STORAGE AND DISPOSAL

### Storage

Store pesticide products in a secure locked area where children, unauthorized persons and animals cannot enter. Do not store in the same area with food or feed. Do not store opened bags.

### Prohibitions

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

### 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.

### General

Consult federal, state, or local disposal authorities for approved alternative procedures such as limited open burning.

## DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. **CYANAMID DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**BUYER'S EXCLUSIVE REMEDY AND AMERICAN CYANAMID'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF COUNTER 15G.** In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.



**BEFORE USING, READ PRECAUTIONARY STATEMENTS**

COUNTER 15G should be applied with a granular pesticide applicator properly calibrated to assure accurate placement and proper dosage. Cover granules that may be exposed on the ends of the treated rows and turns and loading areas by deep discing immediately after treating fields.

Crops	Pests Controlled	Rate of COUNTER 15G	Application	Remarks
FIELD CORN, <u>FIELD CORN</u> <u>GROWN</u> <u>FOR SEED,</u> POPCORN AND SWEET CORN	Corn rootworms	Banded	Banded	For use on conventional, conservation, <i>or no till</i> corn. In situations where crop debris or winds can prevent proper placement of granules, in-furrow applications are recommended. In-furrow applications reduce the potential for insecticide runoff resulting from excessive rain.
	Wireworms	or		
At Planting	White grubs	In-Furrow	Place granules in a 7-inch band over the row, in front of <i>or behind</i> the presswheel and lightly incorporate <u>with drag chains or tines.</u>	<u>The 6 oz rate is recommended only for use on first year corn.</u>
	Seedcorn maggots	<u>6 to 8 oz</u> per 1,000 ft. of row for any row spacing. Do not exceed 8.7 pounds of COUNTER 15G per acre.	In-Furrow	
	Southern corn billbugs		Place granules directly in the seed furrow behind the planter shoe.	<sup>1</sup> <u>For use in the states of Alabama, Florida, Georgia, Louisiana, Mississippi and Texas only for early season control of light to moderate infestations</u>
	Maize billbugs			
	Thrips			<sup>2</sup> Under dry soil conditions or heavy infestations, it may be necessary to apply an insecticide rescue treatment with another registered insecticide after corn emergence to control surviving cutworm larvae.
	Symphylans			
	<u>Chinchbugs</u> <sup>1</sup>			If application is made at planting, do not make post-emergence or cultivation time treatments of COUNTER 15G.
	Nematodes:			
	Lance			
	Lesion			
	Root knot			
	Spiral			
	Stunt			
	Sting			
	Stubby root			
	Dagger			
	Suppression of:			
	Cutworms <sup>2</sup>			
	Lesser cornstalk borers			

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CROPS	Pest Controlled	Rates of COUNTER 15G	Application	Remarks
Post-emergence Incorporated  (Same as crops above)	Maize billbugs Southern corn billbugs	<b>Banded.</b>  8 oz. per 1,000 ft. of row for any row spacing. Do not exceed 8.7 pounds of COUNTER 15G per acre.	Apply in a 7-inch band over the row of seedling corn plants <i>and lightly incorporate into the soil</i> when billbugs or damage are observed, usually in the 1 to 6 leaf stage of growth. Use cultivators or other suitable implement to lightly incorporate granules into soil.	Only one at planting, post-emergence incorporated, or cultivation time treatment of COUNTER 15G may be used.  Consult your state experiment station, state extension service or certified pest management specialist for proper timing of application.
At Cultivation  (Same as crops above)	Corn rootworms European cornborer	<u>6 to 8 oz.</u> per 1,000 ft. of row for any row spacing. Do not exceed 8.7 pounds of COUNTER 15G per acre.	Apply granules to base of plants or over the top of plants just ahead of cultivation shovels so as to cover granules with soil.	For Field Corn Only: <u>(Excluding Field Corn Grown For Seed)</u> COUNTER 15G may be applied 7 days after application of Beacon* herbicide.  American Cyanamid Company does not recommend using Beacon herbicide following use of COUNTER 15G at planting  Do not graze or cut for forage within 30 days of treatment  <u>Do not harvest sweet corn within 60 days after application.</u>

CROPS	Pest Controlled	Rates of COUNTER 15G	Application	Remarks
SUGAR BEETS At Planting	Sugar beet root maggots <sup>3</sup> Sugar beet leafhopper <sup>4</sup> Aphids <sup>4</sup> Wireworms <sup>3</sup> White Grubs <sup>3</sup>	Modified In-Furrow or Banded 4 to 8 oz. per 1,000 ft. of row for any row spacing (minimum 20 inch row spacing):	Modified In-Furrow Apply in-furrow at planting time 2 to 3 inches behind the seed drop zone after some soil has covered the seed.	Only one application of COUNTER 15G per year may be made.
	Suppression of:  Cutworms	Banded 8 oz. per 1,000 ft. of row for any row spacing (minimum 20 inch row spacing)	Banded Apply in a 5 to 7-inch band over the row and lightly incorporate into the soil <u>with drag chains or tines.</u>	At Planting Do not place granules in direct contact with the seed as crop injury may occur. Power incorporation may be used. Do not incorporate deeper than 2 inches.
	Suppression of:  Sugar beet cyst nematode  Control of:  Sugar Beet leafhopper Aphids	Knifed-in 18 oz. per 1,000 ft. of row for any row spacing (minimum 20 inch row spacing) or no more than 29 lbs. of COUNTER 15G per acre.	Knifed-in Drill granules 2 inches to the side of the seed and 2 to 4 inches below the seed.	<sup>3</sup> If especially heavy infestations are expected use the 8 oz rate.  <sup>4</sup> Modified in-furrow only at the 8 oz use rate.
SUGAR BEETS Post-emergence	Sugar beet root maggot <u>Aphids</u> <u>Sugar beet root aphid</u> <u>Sugar beet leafhopper</u>	Banded 4 to 8 oz. per 1,000 ft. of row for any row spacing (minimum 20 inch row spacing)	Banded Apply in a 5 to 7-inch band over the row and lightly incorporate into the soil <u>with cultivation shovels or other suitable implement.</u>	

CROPS	Pest Controlled	Rates of COUNTER 15G	Application	Remarks
GRAIN SORGHUM At Bedding	Greenbugs Corn leaf aphids	Knifed-in	Knifed-in	Do not place granules in direct contact with seed as crop injury may occur.  Only one application of COUNTER 15G per year may be used. <sup>5</sup> Do not use banded applications for aphid control in New Mexico, West Texas and the Panhandle of Oklahoma.  <u>Do not graze or harvest grain sorghum forage within 50 days after treatment.</u>  <u>Do not harvest grain sorghum fodder or grain within 100 days after treatment.</u>
		8 to 16 oz. per 1,000 ft. of row for any row spacing (minimum 20 inch row spacing) or no more than 26 lbs. of COUNTER 15G per acre.	Drill granules 1 to 4 inches directly below the seed OR 1 to 4 inches below the seed and up to 5 inches to the side of the seed.	
GRAIN SORGHUM At Planting	Corn rootworms Wireworms White Grubs Nematodes Greenbugs Corn leaf aphids Chinchbugs <sup>6</sup>	Banded	Banded <sup>5</sup>	<u>Do not graze or harvest grain sorghum forage within 50 days after treatment.</u>  <u>Do not harvest grain sorghum fodder or grain within 100 days after treatment.</u>
		8 oz. per 1,000 ft of row for any row spacing (minimum 20 inch row spacing) or no more than 13.1 lbs. of COUNTER 15G per acre	Place granules in a 5 to 7- inch band directly behind the planter shoe in front of the press wheel and lightly incorporate with drag chains or tines.	
		Knifed-in		<sup>6</sup> For use in the states of Louisiana and Texas only for early season control of light to moderate infestations.
	Greenbugs Corn leaf aphids	8 to 16 oz. per 1,000 ft. of row spacing for any row spacing (minimum 20 inch row spacing) or no more than 26 lbs. of COUNTER 15G per acre.		

\* Beacon is a registered trademark of Ciba Crop Protection.

**Use Rates as Pounds per Acre\***  
(based on various row spacings and application rates)

**Application Rates (Oz./1,000 Ft. of Row)**

Row Width (inches)	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	14 oz.	16 oz.
40"	3.3	4.9	6.5	8.2	9.8	11.4	13.1
38"	3.4	5.2	6.9	8.6	10.3	12.0	13.7
36"	3.6	5.4	7.3	9.1	10.9	12.7	14.5
34"	3.9	5.6	7.7	9.7	11.6	13.5	15.4
32"	4.1	6.1	8.2	10.2	12.3	14.3	16.3
30"	4.4	6.5	8.7	10.9	13.1	15.2	17.4
28"	4.7	7.1	9.5	11.8	14.2	16.6	18.9
26"	5.0	7.6	10.2	12.7	15.3	17.9	20.4
24"	5.4	8.2	10.9	13.6	16.3	19.1	21.8
22"	5.9	8.9	11.9	14.9	17.9	21.0	24.0
20"	6.5	9.8	13.1	16.3	19.6	22.8	26.1

\*See directions for specific use rates on each crop.