



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 CR Systemic Insecticide Nematicide  
EPA Reg. No. 241-314  
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 correction before you release the product for shipment.

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.

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)



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

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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.

**COUNTER® CR®**  
**systemic insecticide nematicide**  
**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 . . . . .	20.0%
Inert Ingredients . . . . .	80.0%
Total	100.0%

EPA Reg. No. 241-314

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

**KEEP OUT OF REACH OF CHILDREN**

JUN 13 1996

**DANGER! PELIGRO!**  
**POISON**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 241-314

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.

### NOTE TO PHYSICIANS

Warning symptoms include weakness, headache, tightness in chest, blurred vision, nonreactive 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.

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

See next page for additional precautionary statements.

Net Weight:

7/95

American Cyanamid Company  
Agricultural Products Division  
Crop Protection Chemical Department  
Wayne, NJ 07470 © 1995

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### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

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 drenched or heavily contaminated with this product's concentrate. 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 washwaters. Cover or incorporate granules that are spilled during mixing and loading.



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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 of 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 CR.** 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 CR 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	Rates of COUNTER CR	Application	Remarks
FIELD CORN, <u>FIELD CORN</u> <u>GROWN FOR</u> <u>SEED.</u> POPCORN AND SWEET CORN  At Planting	Corn rootworms	Banded or	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.  <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.  <sup>2</sup> <i>The 4.5 oz rate is recommended only for use on first year corn.</i>  If application is made at planting, do not make postemergence or cultivation time treatments of COUNTER.  <sup>1</sup> <i>For use in the states of Alabama, Florida, Georgia, Louisiana, Mississippi and Texas only. For early season control of light to moderate infestations.</i>
	Wireworms	In-furrow		
	White grubs		Place	
	Seedcorn maggots	4.5 <sup>2</sup> to 6 oz. per 1,000	granules in a	
	Seedcorn beetles	ft. of row for any	7-inch band	
	Corn flea beetles	row spacing. Do	over the row,	
	Maize billbugs	not exceed 6.5	in front of <del>or</del>	
	Southern corn	pounds per acre.	<del>behind</del> the	
	billbugs		presswheel	
	Thrips		and lightly	
	<u>Chinch bugs</u> <sup>1</sup>		incorporate	
	Symphylans		<u>with drag</u>	
	Nematodes		<u>chains or</u>	
	Lance		<u>tines.</u>	
	Lesion		In-Furrow	
Root knot		Place		
Spiral		granules		
Stunt		directly in		
Sting		the seed		
Stubby root		furrow		
Dagger		behind the		
Suppression of:		planter shoe.		
Cutworms <sup>2</sup>				
Lesser cornstalk borers				

**FOR FIELD CORN ONLY:**  
*(Excluding field corn grown for seed)*

It is American Cyanamid Company's recommendation that Accent<sup>®</sup> herbicide may be applied after BANDED applications of COUNTER CR.

Applications of Accent herbicide following applications of COUNTER CR may result in temporary crop injury.

Crops	Pests Controlled	Rates of COUNTER CR	Application	Remarks
Post-emergence incorporated  (Same crop as previous page)	Maize billbugs Southern corn billbugs	Banded  6 oz. per 1,000 ft. of row for any row spacing. Do not exceed 6.5 pounds per acre.	Banded  Apply in a 7-inch band over the row of seedling corn plants and lightly incorporate into the soil when billbugs or damage are observed, usually in the 1 to 6-leaf stage of growth. Use cultivators or other suitable implements to lightly incorporate granules into soil.	Only one at planting, post-emergence incorporated or cultivation time treatment of COUNTER may be used.  Do not graze or cut for forage within 30 days of treatment.  <i>Do not harvest sweet corn within 60 days after application.</i>  Consult your state experiment station, state extension service or certified pest management specialist for proper timing of application.  FOR FIELD CORN ONLY: <i>(Excluding Field corn grown for seed)</i> COUNTER CR may be applied 7 days after application of Beacon herbicide. American Cyanamid Company does not recommend using Beacon herbicide following use of COUNTER CR at planting
At Cultivation  (Same crop as previous page)	Corn rootworms European cornborers	<i>4.5 to 6 oz.</i> per 1,000 ft. of row for any row spacing. Do not exceed 6.5 pounds 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.	

Crops	Pests Controlled	Rates of COUNTER CR	Application	Remarks
SUGAR BEETS  At Planting	Sugar beet root maggot <sup>3</sup> <i>Sugar beet leafhopper</i> <sup>4</sup> <i>Aphids</i> <sup>4</sup> Wireworms <sup>3</sup> White grubs <sup>3</sup>	Banded or Modified In-furrow 3-6 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 2-3 inches behind the seed drop zone after some soil has covered the seed.	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: Cutworms	Banded 6 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 <i>with drag chains or tines.</i>	<sup>3</sup> If especially heavy infestations are expected use the 6 oz. rate.  <sup>4</sup> <i>Modified in-furrow only at the 6 oz rate.</i>
	Suppression of: Sugar beet cyst nematode  Control of: Beet leafhopper <i>Aphids</i>	Knifed-in 12 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 19.6 lbs. per acre.	Knifed-in Drill granules 2 inches to the side of the seed and 2-4 inches below the seed.	Only one application of COUNTER per year may be used.
SUGAR BEETS  Post-emergence	Sugar beet root maggot <i>Aphids</i> <i>Sugar beet root aphid</i> <i>Sugar beet leafhopper</i>	Banded 3-6 oz. per 1,000 ft. of row for any spacing (minimum 20-inch row spacing).	Banded Apply in a 5 to 7-inch band over the row and lightly incorporate into the soil <i>with cultivation shovels or other suitable implement.</i>	

Crops	Pests Controlled	Rates of COUNTER CR	Application	Remarks
GRAIN SORGHUM	Greenbugs Corn leaf aphids	<b>Knifed-in</b> 6-12 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 19.6 lbs. per acre.	<b>Knifed-in</b> Drill granules 1-4 inches below the seed OR 1-4 inches below the seed and up to 5 inches to the side of the seed.	Do not place granules in direct contact with seed as crop injury may occur.  Only one application of COUNTER per year may be used.
At Bedding				
GRAIN SORGHUM	Corn rootworms Wireworms White grubs Nematodes Greenbugs Corn leaf aphids <i>Chinchbugs</i> <sup>6</sup>	<b>Banded</b> 6 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 9.8 lbs. per acre.	<b>Banded</b> <sup>5</sup> Place granules in a 7-inch band over the row, in front of or behind the presswheel and lightly incorporate <i>with drag chains or tines.</i>	<sup>5</sup> Do not use banded applications for aphid control in New Mexico, West Texas and the panhandle of Oklahoma.  <i>Do not graze or harvest grain sorghum forage within 50 days after treatment.</i>
At Planting				
	Greenbugs Corn leaf aphids	<b>Knifed-in</b> 6-12 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 19.6 lbs. per acre.		<sup>6</sup> <i>For use in the states of Louisiana and Texas only for early season control of light to moderate infestations.</i>  <i>Do not harvest grain sorghum fodder or grain within 100 days after treatment.</i>

\* Accent is a registered trademark of E. I. DuPont De Nemours & Company.

\*\* 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)	3 oz.	4 oz.	6 oz.	8 oz.	9 oz.	10 oz.	12 oz.
40"	2.5	3.3	4.9	6.5	7.4	8.2	9.8
38"	2.6	3.4	5.2	6.9	7.8	8.6	10.3
36"	2.7	3.6	5.4	7.3	8.2	9.1	10.9
34"	2.8	3.9	5.6	7.7	8.7	9.7	11.6
32"	3.1	4.1	6.1	8.2	9.2	10.2	12.3
30"	3.3	4.4	6.5	8.7	9.8	10.9	13.1
28"	3.5	4.7	7.1	9.5	10.7	11.8	14.2
26"	3.8	5.0	7.6	10.2	11.4	12.7	15.3
24"	4.1	5.4	8.2	10.9	12.2	13.6	16.3
22"	4.5	5.9	8.9	11.9	13.5	14.9	17.9
20"	4.9	6.5	9.8	13.1	14.7	16.3	19.6

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

### CALIBRATION INFORMATION

#### FIRST READ THE LABEL.

It is important that applicator equipment be properly set to deliver the labeled rate. This chart will help determine the desired rate of application.

When label is 6 ounces per 1,000 feet of row, use these suggested starting gauge settings, regardless of row spacing:

### PLANTING SPEED

<u>APPLICATOR</u>	<u>Model</u>	<u>3 mph</u>	<u>4 mph</u>	<u>5 mph</u>	<u>6 mph</u>	<u>7 mph</u>
<u>John Deere Max Emerge 2</u>	<u>Models 7200 and 7300</u>	<u>14</u>	<u>16</u>	<u>19</u>	<u>22</u>	<u>24</u>
<u>John Deere Max-Emerge</u>	<u>Model 7000 &amp; 7100 Odd Notches 5-15-25-35</u>	<u>10</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>
<u>John Deere Max-Emerge</u>	<u>Models 7000 and 7100 Even Notches 0-10-20-30</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>21</u>	<u>23</u>
<u>International Harvester</u>	<u>800 900 Series</u>	<u>1/4</u>	<u>1/7</u>	<u>2/1</u>	<u>2/4</u>	<u>2/6</u>
<u>Kinze</u>	<u>Even Notches 0-10-20-30</u>	<u>11</u>	<u>12</u>	<u>15</u>	<u>18</u>	<u>19</u>
<u>Kinze</u>	<u>Odd Notches 5-15-25-35</u>	<u>9</u>	<u>10</u>	<u>12</u>	<u>14</u>	<u>16</u>
<u>White</u>	<u>Model 6000</u>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	<u>17</u>

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