

241-314

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

DEC 17 1999

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. John J. Wrubel, Global Registrations Manager
Global Regulatory Affairs
American Cyanamid Company
Ag. Products Research Div.
P. O. Box 400
Princeton, NJ 08543-0400

Dear Mr. Wrubel:

Subject: Addition of Labeling for Mini-Bulk Container
Counter 15 G Systemic Insecticide-Nematicide
EPA Reg. No. 241-238
Counter CR Systemic Insecticide-Nematicide
EPA Reg. No. 241-314 ✓
Thimet 20 G Soil and Systemic Insecticide
EPA Reg. No. 241-257
Your Applications of September 28, 1999

The labeling amendment referred to above for each of the subject products, 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 for each product incorporating the correction stated below 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.

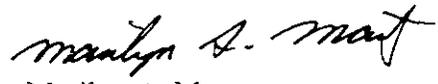
If this condition is not complied with, the registrations will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the products bearing the amended label constitutes acceptance of this condition.

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

Acceptance of the subject labeling amendment is reflective of the Agency's policy of encouraging use of closed systems and of bulk containers. The subject mini-bulk container loading system meets the criteria of a closed loading system as defined under 40 CFR Part 170.240(d)(4).

However, due to the physical differences between the current Lock` n Load closed loading system and the subject mini-bulk closed loading system, exposure information obtained from data that may have been conducted for the former system may not be reflective of the exposure potential from use of the latter.

Sincerely,



Marilyn A. Mautz
Biologist
Insecticide-Rodenticide Branch
Registration Division (7504C)

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

LOCK'n LOAD® MINI-BULK Closed Handling System

FOR USE IN FIELD CORN, FIELD CORN GROWN FOR SEED, 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

EPA Est. No.

ACCEPTED with COMMENTS in EPA Label Edit

KEEP OUT OF REACH OF CHILDREN

DANGER! PELIGRO!



DEC 17 1999
Under the Federal Insecticide, Fungicide, and Rodenticide Act, this product has been found to violate the law 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.

4/15

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 973-683-3100.

See next page for additional precautionary statements.

Net Weight: 2000 lbs

9/99

American Cyanamid Company
~~North America~~ Global Agricultural Products Division
Crop Protection Products ~~Division~~ Department :
One Campus Drive
Parsippany, NJ 07054 © 1999

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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 container 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 container 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 persons, 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) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter.

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. Wash all PPE after each day's use. 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.

The **LOCK'n LOAD** system, when used correctly, qualifies as a closed loading system under the WPS. Mixer/loaders correctly loading this product using the LOCK'n LOAD system are permitted to wear:

- long-sleeved shirt and long pants,
- shoes and socks,
- a chemical-resistant apron, and
- waterproof gloves

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided with all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown. The PPE required for applicators and other handlers must be worn when performing all pesticide handling tasks other than loading and application, such as spill clean-up and equipment maintenance, cleaning and repair.

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.

7/15

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.

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 for 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.

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

Return empty container to point of purchase.

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, FIELD CORN GROWN FOR SEED, POPCORN AND SWEET CORN	Corn rootworms ¹	Banded or In-furrow	Banded Place granules in a 7-inch band over the row, in front of the presswheel and lightly incorporate with drag chains or tines.	For use on conventional, conservation or no till 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			
At Planting	White grubs	6 oz. per 1,000 ft. of row for any row spacing. Do not exceed 6.5 pounds per acre.	In-Furrow Place granules directly in the seed furrow behind the planter shoe.	¹ COUNTER CR controls all species of corn rootworms including southern, northern, western, and Mexican corn rootworms. For first year corn only: 4.5 oz per 1,000 ft. of row for any row spacing. Do not exceed 4.9 pounds per acre.
	Seedcorn maggots			
	Seedcorn beetles			
	Corn flea beetles			
	Maize billbugs			
	Southern corn billbugs			
	Thrips			
	Chinch bugs ²			
	Symphylans			
	Nematodes			
	Lance			
	Lesion			
Root knot				
Spiral				
Stunt				
Sting				
Stubby root				
Dagger				
Suppression of:				
Cutworms ³				
Lesser cornstalk borers				

²For use in the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi and Texas only. For early season control of light to moderate infestations.

³Under 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.

If application is made at planting, do not make postemergence or cultivation time treatments of COUNTER CR.

FOR FIELD CORN ONLY
(excluding field corn grown for seed):
sulfonyleurea containing herbicides* can be used with BANDED** applications of COUNTER CR with the exception of Basis™ and Basis Gold™. Basis and Basis Gold SHOULD NOT be used if COUNTER (terbufos) has been applied to corn unless otherwise specified by supplemental labeling. Beacon™ may be applied seven days after BANDED applications of COUNTER CR. Exceed™ may be applied 10 days after BANDED applications of COUNTER CR.

* Accent™, Beacon, Broadstrike™ Plus, Broadstrike + Dual™, Broadstrike SF + Dual, Exceed™, Hornet™, Permit™ and Scorpion™ III

** COUNTER CR BANDED ONLY

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 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 CR may be used. Do not graze or cut for forage within 30 days of treatment. Do not harvest sweet corn within 60 days after application. Consult your state experiment station, state extension service or certified pest management specialist for proper timing of application.
At Cultivation (Same crop as previous page)	Corn rootworms ¹ European corn borers	6 oz. 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
GRAIN SORGHUM	Greenbugs Corn leaf aphids	Knifed-in 6 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 9.8 pounds per acre.	Knifed-in 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 CR per year may be used.
At Bedding				
GRAIN SORGHUM	Corn rootworms Including southern corn rootworms Wireworms White grubs Nematodes Greenbugs Corn leaf aphids Chinchbugs ⁵	Banded 6 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 9.8 pounds per acre.	Banded⁴ Place granules in a 7-inch band over the row, in front of the presswheel and lightly incorporate with drag chains or tines.	⁴ Do not use banded applications for aphid control in New Mexico, West Texas and the panhandle of Oklahoma. ⁵ For use in the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi and Texas only for early season control of light to moderate infestations.
At Planting				
	Greenbugs Corn leaf aphids	Knifed-in 6 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 9.8 pounds per acre.		Do not graze or harvest grain sorghum forage within 50 days after treatment. Do not harvest grain sorghum fodder or grain within 100 days after treatment.

Crops	Pests Controlled	Rates of COUNTER CR	Application	Remarks
SUGAR BEETS At Planting	Sugar beet root maggot ⁶ Sugar beet leafhopper ⁷ Aphids ⁷ Wireworms ⁶ White grubs ⁶	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. ⁶ If especially heavy infestations are expected use the 6 oz. rate. ⁷ Modified in-furrow only at the 6 oz rate.
	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 with drag chains or tines.	
	Suppression of: Sugar beet cyst nematode Control of: Beet leafhopper Aphids	Knifed-in 6 oz. per 1,000 ft. of row for any row spacing (minimum 20-inch row spacing) or no more than 9.8 pounds 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 CR per year may be used. <u>Do not harvest sugar beets or feed tops to livestock within 150 days of a knifed-in application.</u>
SUGAR BEETS Post-emergence	Sugar beet root maggot Aphids Sugar beet root aphid Sugar beet leafhopper	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 with cultivation shovels or other suitable implement.	Post-emergence: For sugar beet root maggot control apply at the time of first fly emergence. <u>Do not harvest sugar beets or feed tops to livestock within 110 days after at planting banded, at planting modified in-furrow or postemergence banded applications.</u>

TMBasis, Basis Gold, and Accent are trademarks of E. I. DuPont de Nemours & Co., Inc.

TMBeacon, Dual, and Exceed are trademarks of Novartis Crop Protection Co.

TMHornet, Broadstrike, Broadstrike Plus, Broadstrike SF, and Scorpion III are trademarks of DowElanco Co.

TMPermit is a trademark of Monsanto Co.

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.
40"	2.5	3.3	4.9
38"	2.6	3.4	5.2
36"	2.7	3.6	5.4
34"	2.8	3.9	5.6
32"	3.1	4.1	6.1
30"	3.3	4.4	6.5
28"	3.5	4.7	7.1
26"	3.8	5.0	7.6
24"	4.1	5.4	8.2
22"	4.5	5.9	8.9
20"	4.9	6.5	9.8

*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

APPLICATOR	Model	3 mph	4 mph	5 mph	6 mph	7 mph
John Deere Max Emerge 2	Models 7200 and 7300	12	13	16	17	20
John Deere Max Emerge 2 with Chemizer Rotors	Models 7200 and 7300	12	14	17	19	23
John Deere Max-Emerge	Model 7000 & 7100 Odd Notches 5-15-25-35	10	11	13	15	17
John Deere Max-Emerge	Models 7000 and 7100 Even Notches 0-10-20-30	12	15	18	21	23
John Deere 71 Flex-Planter		1/24	1/25	1/27	1/28	2/1
Noble (old)		9	10	13	14	18
Noble (new)		7	10	11	14	15
International Harvester	800 900 Series	1/4	1/7	2/1	2/4	2/6
Kinze	Even Notches 0-10-20-30	11	12	15	18	19
Kinze	Odd Notches 5-15-25-35	9	10	12	14	16
White	Model 6000	9	11	13	15	17
Allis Chalmers	78 & 79 series	5	5	5	5	5
Allis Chalmers	#385	5	6	7	8	9
Gandy		10	12	14	15	16
Buffalo	Gauged	5	6	8	8	11
Buffalo	Fluted-Roll Feed	3.5	3.5	3.5	3.5	3.5

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.