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

APR 20 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Andrew A. Davidson ZENECA INC. 1800 CONCORD PIKE WILMINGTON, DE 19897

Subject:

Label Amendment Submission of 07/16/93 in Response to PR Notice 93-7

EPA Reg. No. 10182-195

**DYFONATE - TILLAM 1-4E** 

## Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

### WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

#### WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

Page 1 of 17 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

## DYFONATE®-TILLAM® 1-4E Insecticide-Herbicide

## Organophosphate

Emulsifiable Liquid for the Control of Weeds and Insects in Tobacco

### **COMPLETE DIRECTIONS FOR USE**

EPA Reg. No. 10182-195 EPA Est. No. 10182Net Gals. \_\_\_\_

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

ACCEPTED with COMMENTS In EPA Letter Dated APR 2 0 1994

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the posticide registered under EPA Reg. No.

Page 2
DYFONATE-TILLAM 1-4E
DYF195C.RSG - RS-071493G

#### **KEEP OUT OF REACH OF CHILDREN**

#### 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.)

#### **ACTIVE INGREDIENTS:**

O-Ethyl-S-phenylethylphosphonodithioate*	12.6%
S-propyl butylethylthiocarbamate**	
INERT INGREDIENTS***:	
Total	100.0%

Contains 1 lb. fonofos\* per gallon and 4 lbs. pebulate\*\* per gallon. \*\*\*Contains xylene-range gromatic solvent.

#### STATEMENT OF PRACTICAL TREATMENT

#### FOR PESTICIDE EMERGENCY

CALL PHYSICIAN IMMEDIATELY: If a known exposure occurs, or if poisoning is suspected, do not wait for symptoms to develop. Immediately contact a Poison Control Center, a physician, or the nearest hospital.

**Note:** Be sure to advise the person contacted that the compound is a cholinesterase inhibitor. Describe the type of exposure, the victim's symptoms, and follow the advice given.

NOTE TO PHYSICIAN: DYFONATE® insecticide is a highly-toxic cholinesterase inhibitor. The active ingredient in DYFONATE®-TILLAM 1-4E insecticide herbicide (fonofos) is an organophosphate insecticide that inhibits cholinesterase. Symptoms of poisoning include headache, blurred vision, weakness, nausea, discomfort in the chest, abdominal cramps, vomiting, diarrhea, salivation, sweating, and pinpoint pupils.

## ALWAYS CALL A PHYSICIAN IN CASE OF SUSPECTED POISONING. ATROPINE BY INJECTION IS ANTIDOTAL.

IF SWALLOWED: Immediately give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF ON SKIN: Flush with large amounts of running water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.

IF IN EYES: Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold the eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately!

Page 3 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

IF INHALED: Remove to fresh air. If not breathing, clear victim's airway and start mouth-to-mouth artificial respiration. Get medical attention.

IF BREATHING IS DIFFICULT, give oxygen, preferably with a physician's advice. Get medical attention immediately.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (1-800-327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

INFORMATION FOR MEDICAL PERSONNEL: Initial measures include removal of secretions, maintenance of a patent airway, and if necessary, artificial respiration. When cyanosis is relieved, atropine by injection is antidotal and may be administered in large therapeutic doses, repeated as necessary to the point of tolerance. If symptoms warrant further treatment, 2-PAM (Protopam Chloride) has shown utility as adjunctive therapy. Never use morphine. Continued absorption of the poison may occur, resulting in fatal relapse after initial improvement; very close supervision of the patient is indicated for at least 48 to 72 hours.

Page 4
DYFONATE-TILLAM 1-4E
DYF195C.RSG - RS-071493G

#### **PRECAUTIONARY STATEMENTS**

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. RAPIDLY ABSORBED THROUGH THE SKIN. DO NOT GET IN THE EYES, ON SKIN, OR ON CLOTHING. AVOID BREATHING OF SPRAY MIST.

Use MSHA/NIOSH approved respirator for pesticides.

Wear rubber gloves, shoes, protective clothing, and goggles when handling or applying. Protective clothing means, at least, a hat or other suitable head covering, gloves, a leng-sleeved shirt and long legged trousers or coverall type-garment (all closely woven fabric covering the body, including the arms and legs), shoes and socks.

Wash hands, arms, and face thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Routine'y shower or bathe after work and wash all clothing with soap and hot water-before reusing. In ease of contact, immediately remove contaminated clothing and wash thoroughly with soap and water.

## **Personal Protective Equipment**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- · Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves, such as barrier laminate or butyr rubber ≥ 14 mils or nitrile rubber ≥ 14 mils or vitron ≥ 14 mils.
- Chemical-resistant footwear plus socks.
- Protective evewear.
- 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).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

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:

- 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.

Do not transport or store DYFONATE®-TILLAM® 1-4E insecticide-herbicide with any food or feed intended for human or animal consumption.

Not for use or storage in or around the home.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. Birds feeding in treated areas may be killed. Remove or cover if spills occur. Runoff from treated areas may be hazardous to fish in neighboring areas. For terrestrial uses, 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. For guidance contact your regional office of the EPA. Apply this product only as specified on the label.

Fonofos is known to leach through soil into groundwater under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

In case of spill, isolate the spill.

Hold this package, other cargo and vehicles involved.

Immediately telephone (24-hour service) for emergency assistance CHEMTREC 1-800-424-9300.

#### PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Page 6 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

#### **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.

Application should be made by ground power equipment and by trained personnel only. Do not apply with hand equipment.

Do not apply this product with any type of irrigation equipment.

#### **GENERAL USE PRECAUTIONS**

- · Read all directions before using.
- · Do not apply to any crop or in any manner not specified on this label.
- · Do not rotate to carrots.
- Applied according to directions and under normal growing conditions, this product will not
  harm the treated crop. During germination and early growth, extended periods of
  unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack,
  the use of certain soil applied systemic insecticides, highly saline or alkaline soil
  conditions, improperly placed fertilizers or soil insecticides may create abnormal conditions
  that weaken crop seedlings. DYFONATE-TILLAM 1-4E used under these abnormal
  conditions could result in crop injury.
- Do not tankmix with insecticides, fungicides or fluid fertilizers unless their compatibility has been tested and proven to be satisfactory prior to use or except as specified on this label.
- Do not store near seeds or fertilizers.
- This product contains a selective herbicide which is mixed (incorporated) into the soil for control of weeds listed on this label. It controls weeds by interfering with normal seed germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

## **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 protection 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. The REI is 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

Page 7 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

**Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, undercertain 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 over short-sleeved shirt and short pants.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber ≥ 14 mils or nitrile rubber ≥ 14 mils or vitron ≥ 14 mils.
- 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.

SOIL INSECTS CONTROLLED <sup>1</sup>		
COMMON NAME SCIENTIFIC NAME		
Black cutworm	Agrotis ipsilon	
Com wireworm	Melanotus communis	
Southern potato wireworm	Conoderus falli	
Tobacco wireworm	Conoderus vespertinus	
Tobacco flea beetle larvae²	Epitrix hirtipennis	

<sup>&</sup>lt;sup>1</sup> For control under severe insect infestations, tankmix 1 quart/acre of DYFONATE 4-EC.

<sup>&</sup>lt;sup>2</sup> For suppression only; a transplant or setter water treatment of a suitable insecticide is necessary for control.

DYF195C.RSG - RS-071493G

WEEDS CONTROLLED

ANNUAL GRASSES		
COMMON NAME	SCIENTIFIC NAME	
Barnyardgrass, Watergrass	Echinochloa crus-galli	
Bermudagrass, seedling	Cynodon dactylon	
Crabgrass	Digitaria spp.	
Foxtail (Giant, Green, Yellow)	Setaria spp.	
Goosegrass	Eleusine indica	
Millet	Setaria spp.	
Narrowleaf signalgrass, Alexandergrass	Brachiaria piligera	
Wild oats	Avena fatua	

The following broadleaf weeds will be controlled only if DYFONATE-TILLAM 1-4E is applied when conditions are favorable for germination.

ANNUAL BROADLEAF WEEDS		
COMMON NAME	SCIENTIFIC NAME	
Blackeyed susan, Sweet suzy	Rudbeckia hirta	
Common lambsquarters	Chenopodium album	
Common purslane	Portulaca oleracea	
Deadnettle, Henbit	Lamium amplexicaule	
Florida pusley	Richardia scabra	
Hairy nightshade, Groundcherry <sup>1</sup>	Solanum villosum	
Nettleleaf goosefoot	Chenopodium murale	
Prostrate pigweed	Amaranthus graecizans	
Redroot pigweed	Amaranthus retroflexus	
Shepherd's-purse	Capsella bursa-pastoris	

<sup>&</sup>lt;sup>1</sup>Suppression or partial control only.

PERENNIAL WEEDS	
COMMON NAME   SCIENTIFIC NAM	
Yellow nutsedge	Cyperus esculentus
Purple nutsedge	Cyperus rotundus

Existing stands of nutsedge must be turned under and chopped up thoroughly before treatment.

#### REENTRY STATEMENTS

- Do not enter treated areas without protective clothing until treatments have been completed.
- Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.
- \* Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.
- Do not apply or allow to drift to areas occupied by domestic animals or onto adjoining food, fiber or pasture crops. Do not contaminate food or feed.
- Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

When oral warnings are given, warnings shall be given in a language customarily understood by workers and must indicate the specific period of time that treated areas may not be entered without protective clothing. Oral warnings must also include appropriate first aid instructions in ease of accidental exposure. These instructions are given in the STATEMENT OF PRACTICAL TREATMENT section.

Written warnings must include the following information, "WARNING.—Area treated with DYFONATE TILLAM-1-4E Agricultural Insecticide Herbicide on (date of application). Do not enter treated areas without protective elothing until treatments have been completed (or other reentry interval if your state has a more restrictive interval for this product)." (Written warnings must include the STATEMENT OF PRACTICAL TREATMENT section.)

#### **USE RATE:**

Apply DYFONATE-TILLAM 1-4E at the rate of 1 gallon per acre.

#### **APPLICATION DIRECTIONS:**

The soil should be well-worked and dry enough to permit good soil mixing (incorporation).

Page 10
DYFONATE-TILLAM 1-4E
DYF195C.RSG - RS-071493G

- Pour the recommended amount of product into the spray tank during the filling operations.
- Apply in 20 to 50 gallons of water per acre. Use a properly calibrated, low-pressure, boom-type sprayer having good agitation.

#### **APPLICATION TIMING:**

 Apply DYFONATE-TILLAM 1-4E before bedding and transplanting. Incorporate and bed up immediately after application.

#### **INCORPORATION DIRECTIONS:**

- DYFONATE-TILLAM 1-4E must be mixed (incorporated) into the soil IMMEDIATELY after application to prevent loss by evaporation of the herbicide.
- · Whenever possible, application and incorporation should be done in the same operation.

#### Tandem disc:

- Can be used on all soil types.
- · Set disc to cut 4 to 6 inches deep.
- Operate disc at 4 to 6 MPH.
- Follow disc by a harrow or leveling device slightly wider than the disc.
- Two passes in different directions will improve control. The second pass should be at a slight angle to the first.
- On the second pass the disc should be operated no deeper than on the first pass.
- If deep germinating weeds are present, a second incorporation will improve control or suppression. Weeds which fall into this category are seedling johnsongrass and nutsedge.

### Power Driven cultivation equipment:

- Soil should have previous primary tillage.
- Ground speed must be adjusted with PTO driven cultivation tools to ensure thorough incorporation.
- Set horizontal action tine equipment to cut 4 to 6 inches deep.
- Set vertical action tine equipment to cut 3 to 4 inches deep.

#### Field cultivator:

- Use on light soils in good tilth.
- Equip cultivator with 3 to 4 rows of sweeps spaced at 7 inches or less and staggered from row-to-row to leave no soil unturned or undisturbed.
- Set the field cultivator to cut 4 to 6 inches deep.
- · Operate at 5 MPH or faster.
- · Follow by a harrow or leveling device.
- Chisel plows or points should not be used.
- Two passes in different directions will improve control. The second pass should be at a slight angle to the first.
- If deep germinating weeds are present, use a tandem disc for the first pass.

Page 11 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

#### TRANSPLANTING:

For maximum weed control, the tobacco may be transplanted immediately after application or application and bedding.

#### **TOBACCO RECOMMENDATIONS**

#### **CULTIVATION:**

- This product is not persistent in the soil and susceptible weeds germinating late in the season may not be controlled.
- Cultivation may be necessary to control those susceptible weeds that escape control as well as those weeds not susceptible.
- Do not cultivate deeper than the depth of incorporation of the product.

#### **TANKMIX COMBINATIONS**

## DYFONATE-TILLAM 1-4E/DEVRINOL® 50-DF and DYFONATE-TILLAM 1-4E/DEVRINOL 50-WP

## Additional weeds controlled by DYFONATE-TILLAM 1-4E/DEVRINOL tankmix

GRASSES		
COMMON NAME	SCIENTIFIC NAME	
Johnsongrass, seedling	Sorghum halepense	
Fall panicum	Panicum dichotomiflorum	
Witchgrass	Panicum capillare	
Stinkgrass	Eragrostis cilianensis	

BROADLEAVES		
COMMON NAME SCIENTIFIC NAME		
Carpetweed	Mollugo verticillata	
Purple cudweed	Gnaphalium purpureum	
White clover	Trifolium repens	

#### **USE RATE:**

Tankmix DEVRINOL® 50-WP or 50-DF selective herbicide at the rate of 2 pounds per acre
with the recommended rate of 1 gallon of DYFONATE-TILLAM 1-4E. The DEVRINOL 50DF or 50-WP should be added to the tank first and properly agitated and dispersed before
adding the DYFONATE-TILLAM 1-4E. Agitation should be maintained in the spray tank
until empty.

#### **APPLICATION DIRECTIONS:**

• The tankmix directions are the same as for DYFONATE-TILLAM 1-4E alone.

#### **APPLICATION TIMING:**

- Apply the tankmix of DEVRINOL and DYFONATE-TILLAM 1-4E before bedding and transplanting.
- · Incorporate and bed up immediately after application.

#### INCORPORATION DIRECTIONS:

• The tankmix directions are the same as for DYFONATE-TILLAM 1-4E alone.

#### TRANSPLANTING:

• For maximum weed control, the tobacco may be transplanted immediately after application or application and bedding.

#### **DYFONATE-TILLAM 1-4E/DYFONATE 4-EC**

Tankmix 1 quart of DYFONATE 4-EC for the control of severe insect infestations.

Follow the use directions for DYFONATE-TILLAM 1-4E for application, incorporation, and transplanting. Follow all use precautions on both the DYFONATE-TILLAM 1-4E and DYFONATE 4-EC labels.

Page 13 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

#### DYFONATE-TILLAM 1-4E IMPREGNATION ON DRY BULK FERTILIZERS

**CAUTION**: DYFONATE-TILLAM 1-4E MUST NOT BE IMPREGNATED ON AMMONIUM NITRATE, SODIUM NITRATE, OR POTASSIUM NITRATE. SUCH MIXTURES MAY CAUSE EXPLOSION AND FIRE.

ALL DYFONATE-TILLAM 1-4E AND DYFONATE 4-EC HANDLING INSTRUCTIONS AND LABEL RECOMMENDATIONS REGARDING RATES PER ACRE, SOIL INCORPORATION, APPLICATION, CAUTIONS, GENERAL USE PRECAUTIONS, AND OTHER DIRECTIONS MUST BE FOLLOWED.

ALL INDIVIDUAL STATE REGULATIONS RELATING TO BULK DRY FERTILIZER BLENDING, REGISTRATION, LABELING, AND APPLICATION ARE THE RESPONSIBILITY OF THE INDIVIDUAL AND/OR COMPANY SELLING THE FERTILIZER AND DYFONATE-TILLAM 1-4E MIXTURE.

DYFONATE-TILLAM 1-4E may be impregnated on many dry bulk fertilizers (see following chart of dry fertilizer ingredients approved by ZENECA) and applied and incorporated in the soil before planting for the control of insects, grasses, and broadleaf weeds in tobacco.

DYFONATE-TILLAM 1-4E on bulk dry fertilizers provides weed and insect control equal to DYFONATE-TILLAM 1-4E applied as a spray in water. However, uniform impregnation of DYFONATE-TILLAM 1-4E on the dry fertilizer particles and uniform application in the field are necessary to assure good results.

For impregnating DYFONATE-TILLAM 1-4E on dry fertilizer, use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle (or nozzles) should be positioned inside of the mixer to provide <u>uniform</u> spray coverage of the tumbling fertilizer. The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with DYFONATE-TILLAM 1-4E provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, use of a highly absorptive powder is required to provide a dry, flowable mixture. Micro-Cel<sup>TM</sup> E is the recommended absorbent powder. It should be added separately and uniformly to the prepared DYFONATE-TILLAM 1-4E fertilizer mixture in a quantity that is sufficient to provide a suitably flowable mixture. Generally less than 2% by weight of Micro-Cel E is required. The amount of DYFONATE-TILLAM 1-4E actually required in the manufacture of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of DYFONATE-TILLAM 1-4E actually contained in the mixture applied to the soil represents the correct rate of use.

A minimum of 200 pounds and a maximum of 2,000 pounds of ingredients approved by ZENECA (see following chart of dry fertilizer ingredients approved by ZENECA) impregnated with DYFONATE-TILLAM 1-4E at the recommended rate must be applied per acre.

Bulk fertilizer impregnated with DYFONATE-TILLAM 1-4E should be applied immediately, not stored. It is recommended that all bulk containers be tightly covered while the product is being transported and applied to reduce chances of DYFONATE-TILLAM 1-4E loss via volatilization.

16 7 19

Page 14 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

## DRY FERTILIZER INGREDIENTS APPROVED BY ZENECA

	N	Р	K
Ammonium sulfate	21	0	0
Diammonium phosphate	18	46	0
Potassium chloride	0	0	60
Potassium sulfate	0	0_	52
Super-phosphate (single)	0	20	0
Super-phosphate (triple)	0	46	0
Urea	<b>4</b> 5	0	0
Ammonium phosphate sulfate	16	20	0
11-48-0	11	48	0

Note: K-Mag and two MAP fertilizers (12.5-50-0, 11-54-0) have been shown to be compatible with DYFONATE-TILLAM 1-4E and are approved for use by ZENECA.

## RATE CHART FOR IMPREGNATION OF DRY BULK FERTILIZERS WITH DYFONATE-TILLAM 1-4E

Fertilizer Rate Per Acre (Lbs.)	DYFONATE-TILLAM 1-4E Rate Per Acre (4 qts./acre)	
200	40 qts./ton	
300	26.7 qts./ton	
400	20.0 qts./ton	
500	16.0 qts./ton	
600	13-1/3 qts./ton	
800	10 qts./ton	
1000	8 qts./ton	
1500	5-1/3 qts./ton	
2000	4 qts./ton	

# For insect control under severe infestation, add DYFONATE 4-EC to the spray mix as follows:

Fertilizer Rate Per Acre (Lbs.)	DYFONATE 4-EC	
200	10 qts./ton	
300	6-2/3 qts./ton	
400	5 qts./ton	
500	4 qts./ton	
600	3-1/3 qts./ton	
800	2-1/2 qts./ton	
1000	2 qts./ton	
1500	1-1/3 qts./ton	
2000	1 qt./ton	

Page 16 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

#### STORAGE AND DISPOSAL

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

**STORAGE:** Do not transport or store with any food or feed intended for human or animal consumption. Not for use or storage in or around the home.

**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:**

**Metal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **Plastic:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Page 17 DYFONATE-TILLAM 1-4E DYF195C.RSG - RS-071493G

**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.

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