PM 14 10182-212

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JUN 03 1993

429389

Mr. Andrew Davidson Zeneca Inc. Zeneca Ag Products P.O. Box 751 Wilmington, DE 19897

Dear Mr. Davidson:

MADDEN Disk # 3 6/27/93

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Subject: Dyfonate 4-EC EPA Registration No. 10182-212 Your Application for Pesticide Amendment Dated November 6, 1992

The labeling referred to above, deleting sorghum (milo) and sugarcane from the use directions, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Incorporate the changes made to the subject product label that the Agency stamped accepted on May 10, 1993.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS, you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the FEDERAL REGISTER of August 21, 1992 (57 FR 38102). Further guidance will be issued. According to 40 CFR 156 subpart K, specifically §156.200(c)(3): "No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994."

Sincerely yours,

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Robert A. Forrest Product Manager (14) Insecticide-Rodenticide Branch Registration Division(H7504C),

Page 1 of 7 DYFONATE 4-EC Container -DYF212C.RSB - RS110692B

RESTRICTED USE PESTICIDE DUE TO ACUTE DERMAL TOXICITY

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

DYFONATE® 4-EC Emulsifiable Liquid Insecticide

ACTIVE INGREDIENT:	
O-Ethyl S-phenyl ethylphosphonodithioate*	47.3%
INERT INGREDIENTS**:	<u>52.7%</u>
Total	100.0%
*DYFONATE	

Contains 4 pounds fonofos per gallon. **Contains xylene-range aromatic solvent.

KEEP OUT OF REACH OF CHILDREN

DANGER-POISON (SKULL & CROSSBONES)

PELIGRO

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PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

DANGER - READ ALL LABEL DIRECTIONS BEFORE USING

EPA Reg. No. 10182-212 EPA Est. No. 10182-

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ACCEPTED with COMMENTS in EPA Letter Dated: JUN 03 1993

Under the Fasieral Insecticide, Pungicide, and Rodentioide Act as amended, for the posticide registered under EPA Reg. No. 10182 - 212 Made in U.S.A. ICI Agricultural Products ICI Americas Inc. Wilmington, DE 19897



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STATEMENT OF PRACTICAL TREATMENT

FOR PESTICIDE EMERGENCY

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

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

POISON SYMPTOMS: The active ingredient in DYFONATE® 4-EC emulsifiable liquid insecticide (fonofos) is known to be a cholinesterase inhibitor. 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

FIRST AID

If patient has stopped breathing, **IMMEDIATELY** remove from contaminated area, then start artificial respiration, preferably by mechanical means.

IF SWALLOWED: Immediately dilute the swallowed material by giving large quantities of water and induce vomiting by gagging the victim with a finger or blunt object placed on the back of the victim's tongue. Give fluids until vomitus is clear. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center.

IF ON SKIN: Remove contaminated clothing and immediately wash skin thoroughly for 15 minutes with soap and water. Avoid scraping or cutting the skin.

IF IN EYES: Flush with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes. Get medical attention.

IF INHALED: Remove to fresh air. Get medical attention if respiratory irritation occurs.

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

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

INFORMATION FOR PHYSICIAN: If cholinesterase inhibition is suspected, initial measures should include, if necessary, removal of secretions, maintenance of airway, assisted respiration, and atropine as the antidote. Atropine may be injected in large therapeutic doses as needed to abate symptoms and as tolerated by the patient. Pralidoxime chloride (2-Pam, Protopam) can also be used as adjunctive therapy. The material may continue to be the secretion absorbed, resulting in relapse after initial improvement. Very close supervision of the patient is indicated for at least 48 to 72 hours.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

X POISON DANGER X

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DANGER: POISONOUS IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN. RAPIDLY ABSORBED THROUGH THE SKIN. DO NOT GET IN THE EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE SPRAY MIST.

Use a 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 longsleeved 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. Routinely shower or bathe after work and wash all clothing with soap and hot water before reusing. In case of contact, immediately remove contaminated clothing and wash thoroughly with soap and water.

Do not transport or store DYFONATE 4-EC with any food or feed intended for human or animal consumption.

Not for use or ctorage in or around the home.

Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals or onto adjoining food, fiber or pasture crops. Do not contaminate food or feed.

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. 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.

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

Combustible Liquid

Do not use, pour, spill or store near heat or open flame.

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GENERAL PRECAUTIONS

Read all directions before using. ٠

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- Do not apply to any crop or in any manner not specified on this label. Do not rotate to carrots. •
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DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Refer to attached booklet for use directions.

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Application of a sulfonylurea herbicide such as Beacon® herbicide and Accent® herbicide following application of a soil insecticide such as DYFONATE 4-EC may result in crop injury. Follow the Directions for Use and Precautions contained on the sulfonylurea herbicide label.

Do not apply this product through any type of irrigation system.

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 beneficial 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 case 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 Agricultural Insecticide on (date of application). Do not enter treated areas without protective clothing until treatments have been completed." (Written warnings must include the STATEMENT OF PRACTICAL TREATMENT section.)

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STORAGE AND DISPOSAL

STORAGE: Minimum storage temperature: MINUS 40°F. Any steel container may be corroded by its contents. Dents or damage may promote corrosion. Use damaged and older containers FIRST. Inspect rusted cans for leaks.

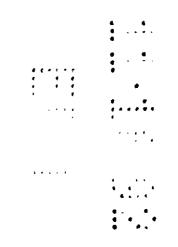
PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

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: 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.

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DYFONATE 4-EC Container DYF212C.RSB - RS-110692B 30

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty * before using this product. See attached booklet for Directions for Use.

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 hamless 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.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

DYFONATE® is a trademark of an ICI Group Company. Accent® is a trademark of E. I. du Pont de Nemours & Co. (Inc.). Beacon® is a trademark of CIBA-GEIGY Corporation.

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RESTRICTED USE PESTICIDE DUE TO ACUTE DERMAL TOXICITY

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

DYFONATE® 4-EC Emulsifiable Liquid Insecticide

COMPLETE DIRECTIONS FOR USE

EPA Reg. No. 10182-212 EPA Est. No. 10182-

> Made in U.S.A. ICI Agricultural Products ICI Americas Inc. Wilmington, DE 19897

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KEEP OUT OF REACH OF CHILDREN

DANGER-POISON (SKULL & CROSSBONES)

PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

DANGER - READ ALL LABEL DIRECTIONS BEFORE USING

ACTIVE INGREDIENT:	•
-O-Ethyl-S-phenylethylphosphonodithioate*	47.3%
Total	00.0%

Contains 4 pounds fonofos per gallon. *DYFONATE **Contains xylene-range aromatic solvent.

STATEMENT OF PRACTICAL TREATMENT

FOR PESTICIDE EMERGENCY

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

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

POISON SYMPTOMS: The active ingredient in DYFONATE® 4-EC emulsifiable liquid insecticide (fonofos) is known to be a cholinesterase inhibitor. 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

FIRST AID

If patient has stopped breathing, **IMMEDIATELY** remove from contaminated area, then start artificial respiration, preferably by mechanical means.

IF SWALLOWED: Immediately dilute the swallowed material by giving large quantities of water and induce vomiting by gagging the victim with a finger or blunt object pleced on the back of the victim's tongue. Give fluids until vomitus is clear. Never give anything by mouth to an unconscious person. Call a physician or the nearest Poison Control Center.

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IF ON SKIN: Remove contaminated clothing and immediately wash skin thoroughly for 15 minutes with soap and water. Avoid scraping or cutting the skin.

IF IN EYES: Flush with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes. Get medical attention.

IF INHALED: Remove to fresh air. Get medical attention if respiratory irritation occurs.

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

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

INFORMATION FOR PHYSICIAN: If cholinesterase inhibition is suspected, initial measures should include, if necessary, removal of secretions, maintenance of airway, assisted respiration, and atropine as the antidote. Atropine may be injected in large therapeutic doses as needed to abate symptoms and as tolerated by the patient. Pralidoxime chloride (2-Pam, Protopam) can also be used as adjunctive therapy. The material may continue to be absorbed, resulting in relapse after initial improvement. Very close supervision of the patient is indicated for at least 48 to 72 hours.

DYFONATE 4-EC Booklet DYF212B.RSE - RS-110692E

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

X POISON DANGER X

DANGER: POISONOUS IF SWALLOWED, INHALED, OR ABSORBED THROUGH THE SKIN. RAPIDLY ABSORBED THROUGH THE SKIN. DO NOT GET IN THE EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE SPRAY MIST.

Use a 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 longsleeved 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. Routinely shower or bathe after work and wash all clothing with soap and hot water before reusing. In case of contact, immediately remove contaminated clothing and wash thoroughly with soap and water.

Do not transport or store DYFONATE 4-EC with any food or feed intended for human or animal consumption.

Not for use or storage in or around the home.

Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals or onto adjoining food, fiber or pasture crops. Do not contaminate food or feed.

ENVIRONMENTAL HAZARDS

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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. 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.

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

Combustible Liquid

Do not use, pour, spill or store near heat or open flame.

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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.

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INSECTS CONTROLLED

Black Cutworm Cabbage Maggot Garden Symphylan Onion Maggot Seed Com Maggot

*Suppression only

FLEA BEETLES:

Elongate Flea Beetle Palestriped Flea Beetle Sweetpotato Flea Beetle Threespotted Flea Beetle Tobacco Flea Beetle Iarvae

*Suppression only

ROOTWORMS:

Northern Corn Rootworm Southern Corn Rootworm Western Corn Rootworm

WIREWORMS:

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Com Wireworm Pacific Coast Wireworm Southern Potato Wireworm Sugarbeet Wireworm Tobacco Wireworm Western Field Wireworm Wheat Wireworm Ctenicera lobata Dalopius pallidus Agrotis ipsilon* Hylemya brassicae Scutigerella immaculata Hylemya antiqua Hylema platura

Systena elongata Systena blanda Chaetocnema confines Disonycha triangularis Epitrix hirtipennis*

Diabrotica longicomis Diabrotica undecimpunctata howardi Diabrotica virgifera

Melanotus communis Limonius canus Conoderus falli Limonius californicus Conoderus vespertinus Limonius infuscatus Agriotes mancus 30

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DYFONATE 4-EC Booklet DYF212B.RSE - RS-110692E

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Application of a sulfonylurea herbicide such as Beacon® herbicide and Accent® herbicide following application of a soil insecticide such as DYFONATE 4-EC may result in crop injury. Follow the Directions for Use and Precautions contained on the sulfonylurea herbicide label.

Do not apply this product through any type of irrigation system.

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 beneficial 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 case 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 Agricultural Insecticide on (date of application). Do not enter treated areas without protective clothing until treatments have been completed." (Written warnings must include the STATEMENT OF PRACTICAL TREATMENT section.)

Application should be made only with tractor mounted spray equipment or larger, custom applicator type vehicles. Application should be made by trained personnel only, using approved protective equipment. Pour the recommended amount of DYFONATE 4-EC into nearly filled spray tank. Add balance of water to fill tank. Keep agitator running during filling and spraying operations. Apply in 20 to 50 gallons of water per broadcast acre using a properly calibrated, low-pressure sprayer having good agitation.

DYFONATE 4-EC may be combined with solution, slurry, and suspension fertilizers. In addition, certain herbicides may be combined with DYFONATE 4-EC, both with and without fertilizer. Read the recommendations for specific uses. Before combining in the spray tank, physical compatibility with these fluid fertilizers must be determined. See Appendix I for special directions regarding these combinations. Even though found to be compatible,

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agitation must be maintained during fitting and application operations to ensure uniform distribution of material.

Preplant broadcast applications should be mixed (incorporated) into the soil to a depth of 2 to 3 inches.

RECOMMENDATIONS

BEANS (GREEN AND DRY)

For control of garden symphylans and wireworms, apply 2 quarts (for symphylans) or 1 gallon (for symphylans and wireworms) DYFONATE 4-EC per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. (For garden symphylans only, reduce the rate proportionately for band treatments.) Use a maximum of 1 gallon per acre per season.

For Control of Seed Corn Maggot:

Northwestern U.S. - Apply 2 quarts to 1 gation DYFONATE 4-EC per acre, broadcast, on soil surface prior to planting and incorporate to a depth of 2 to 4 inches using suitable tillage equipment. Use higher rate where population pressure is severe.

Northeastern U.S. - Apply 1 gallon DYFONATE 4-EC per acre, broadcast, on soil surface prior to planting and incorporate to a depth of 2 to 4 inches using suitable tillage equipment. Use a maximum of 1 gallon per acre per season.

All treatments may be applied as a tankmix with EPTAM® 7-E selective herbicide in fluid fertilizer and/or water. Follow the appropriate regional recommendations in the crop section of the EPTAM 7-E label for broadcast, preplant incorporated applications. Use only fluid fertilizers compatible with EPTAM 7-E and DYFONATE 4-EC (see Appendix I). Observe all use precautions and limitations on the EPTAM 7-E label.

BEANS (LIMA)

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For control of garden symphylans and wireworms, apply 2 quarts (for symphylans) or 1 gallon (for symphylans and wireworms) DYFONATE 4-EC per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. The higher rate is recommended on lima beans grown in California only. (For garden symphylans only, reduce the rate proportionately for band treatments.) Use a maximum of 1 gallon per acre per season.

COLE CROPS (BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER)

Garden Symphylans: Prior to or at time of seeding or transplanting, apply 2 quarts DYFONATE 4-EC per acre, broadcast, and incorporate into the soil using suitable tillage equipment. (Reduce the rate proportionately for band treatments.) Use a maximum of 2 quarts per acre per season.

Cabbage Maggot:

Northeastern U.S. Only - For transplant cole crops use 1 to 2 quarts DYFONATE 4-EC in 200 to 400 gallons of water per acre. Apply with a sprayer equipped with drop nozzles to direct a drenching spray to the base of the plants. Apply immediately after transplanting. Use a maximum of 2 quarts per acre per season.

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CORN (FIELD, SWEET, AND POPCORN)

NOTE: May be used in corn grown for grain or silage. Use a maximum of 1 gallon per acre per season.

A. Band application for control of northern, southern, and western corn rootworms:

Apply, at planting, 3/4 to 1 quart DYFONATE 4-EC per acre in a 6 to 8 inch band over corn rows 29 to 40 inches apart.

Incorporate into the top 1/2 to 1 inch of soil by making application ahead of the press wheels or by use of special covering devices or by dragging a short length of chain behind the press wheels.

Do not place DYFONATE 4-EC in direct contact with seed.

B. Broadcast application for control of symphylans, northern, southern, and western com rootworms and wireworms, and for suppression of black cutworm:

Apply 2 quarts (for symphylans), 3 quarts (for symphylans and corn rootworms), or 4 quarts (for symphylans, corn rootworms, wireworms and black cutworm) DYFONATE 4-EC per acre prior to planting and incorporate into the soil using suitable tillage equipment. This treatment may be applied as a tankmix with ERADICANE® 6.7-E or SUTAN+® 6.7-E selective herbicides or their recommended tankmixes with Atrazine 80W or 4L, or Bladex® 80W or 4L herbicides. A compatible fluid fertilizer (see Appendix I) or water may be used as carrier. Follow all directions, limitations, and use precautions on the ERADICANE 6.7-E, SUTAN+ 6.7-E, Atrazine, and Bladex labels. Do not tank mix DYFONATE 4-EC with ERADICANE 6.7-E on sweet corn or popcorn.

C. Split boot application for control of northern and western corn rootworms (recommended in the North Central and Midwestern corn growing areas only):

Apply, at planting, 1 quart DYFONATE 4-EC in 5 to 20 gallons of compatible fluid fertilizer (see Appendix I) per acre (40 inch row spacing) in subsurface split bands on each side of the corn row, 1-1/4 to 1-1/2 inches to each side of the seed and 1 to 2 inches deep. **Do not place DYFONATE 4-EC in direct contact with the seed**.

MINT (PEPPERMINT, SPEARMINT)

For control of garden symphylans, apply 2 quarts DYFONATE 4 ⁻C per acre, broadcast, and incorporate into the soil using suitable tillage equipment prior to planting or on established plantings prior to Spring growth. (Do not apply terbacil for at least 3 weeks before or after the DYFONATE 4-EC application.) Do not apply after May 15. Do not apply more than once per season. Use a maximum of 2 quarts per acre per season.

ONIONS, BULB

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For control of onion maggot, apply as a furrow treatment at time of planting. Based on a 20 inch row spacing, apply at a rate of 1 quart DYFONATE 4-EC per acre (1 quart per 2,613 feet of row; 3-1/4 fluid ounces per 2,613 feet of row; 1-1/4 fluid ounces per 1,000 feet of row). Use on organic soils only (soils containing 10% or more organic matter). Use a maximum of 1 quart per acre per season.

PEPPERS

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For control of garden symphylans and wireworms, apply 2 quarts (for symphylans) or 4 quarts (for symphylans and wireworms) DYFONATE 4-EC per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. (For garden symphylans only, reduce the rate proportionately for band treatments.) Use a maximum of 4 quarts per acre per season.

POTATOES (IRISH)

A. Broadcast preplant application for control of garden symphylans and wireworms:

Apply 2 quarts (for symphylans) or 4 quarts (for symphylans and wireworms) DYFONATE 4-EC per acre prior to planting and incorporate into the soil using suitable tillage equipment. This treatment may also be applied in certain areas as a tankmix with EPTAM 7-E in a compatible fluid fertilizer and/or water (see Appendix 1). Follow recommendations in the crop section of the EPTAM 7-E label for broadcast, preplant incorporated applications. For use in the Northern, Western, and Pacific Northwest Regions only. Observe all use precautions and limitations on the EPTAM 7-E label.

B. Banded preplant soil injection with fluid fertilizer for control of wireworms (Northwestern U.S. only):

Apply through fluid fertilizer shank immediately ahead of the planter. Set the shank to run 8 to 10 inches deep. Apply 2 quarts DYFONATE 4-EC per crop acre, based on 36 inch row spacing, in the recommended quantity of compatible liquid fertilizer (see Appendix I).

NOTE: For heavy wireworm infestations, use the broadcast application only. Use a maximum of 4 quarts per acre per season.

STRAWBERRIES

For control of symphylans, apply 2 quarts DYFONATE per acre, broadcast, and incorporate into the soil using tillage equipment prior to planting. (Reduce the rate proportionately for band treatments.) Use a maximum of 2 quarts per acre per season.

SUGAR BEETS

For control of garden symphylans and wireworms, apply 2 quarts (for symphylans) or 1 gallon (for symphylans and wireworms) DYFONATE 4-EC per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. (For garden symphylans only, reduce the rate proportionately for band treatments.) Use a maximum of 1 gallon per acre per season.

SWEET POTATOES

For control of wireworms and flea beetle larvae, apply 1 gallon DYFONATE 4-EC per acre, broadcast, at planting and incorporate into the soil using suitable tillage equipment. Use a maximum of 1 gallon per acre per season.

TABLE BEETS

For control of cabbage maggot and garden symphylans, apply 2 quarts DYFONATE 4-EC per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. (For garden symphylans only, reduce the rate proportionately for band treatments.) Use a maximum of 2 quarts per crop. Do not exceed 1 gallon per acre per season.

TOBACCO

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For control of wireworms, apply 1 to 2 quarts DYFONATE 4-EC per acre, broadcast, prior to bedding and transplanting and incorporate into the soil using suitable tillage equipment. Use a maximum of 2 quarts DYFONATE 4-EC or equivalent per acre per season.

TANKMIX DIRECTIONS TOBACCO

DYFONATE 4-EC and TILLAM® 6-E

DYFONATE 4-EC in combination with TILLAM® 6-E selective herbicide controls wireworms and certain weeds (see TILLAM 6-E label) in tobacco. Add to the spray tank and apply 1 quart DYFONATE 4-EC and 2-2/3 quarts TILLAM 6-E in 20 to 50 gallons of water per acre (see Appendix I). Use a property calibrated, low-pressure, bcom-type sprayer having good agitation.

DYFONATE 4-EC and EDGE®

Apply 1 quart of DYFONATE 4-EC in combination with 1 gallon of EDGE® insecticideherbicide per acre to control wireworms, black cutworms, and to suppress flea beetle larvae. DYFONATE 4-EC and TILLAM 6-E and DEVRINOL® 50-WP, 50-DF, or 2-E

Apply DYFONATE 4-EC at 1 to 2 quarts per acre in combination with TILLAM 6-E and DEVRINOL® 50-WP, 50-DF, or 2-E selective herbicide.

IMPORTANT: Refer to the D^VFONATE 4-EC, TILLAM 6-E, EDGE, and DEVRINOL 50-WP, 50-DF, or 2-E labels for pertinent directions for use, and use precautions, and restrictions. The soil should be well worked and dry enough to permit good soil incorporation. The tankmix must be incorporated (mixed) into the soil immediately after application to prevent loss of the herbicide by evaporation. Whenever possible, application and incorporation should be done in the same operation. Use power driven cultivation equipment set to cut to 'epth of 3 inches in light soil and 3 to 4 inches in heavy soil, or a tandem disc set to cut to opth of 4 to 6 inches. Cross disc at right angles for thorough mixing. The bedding ope hould follow the incorporation as soon as practical. Planting may be done immediat vedding or at a later date; however, to ensure long term weed control, the crop should .anted as soon as possible after application and bedding.

TOMATCES

Do not exceed 1 gallon per acre per season. For control of garden symphylans, apply 2 quarts of DYFONATE 4-EC per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. (Reduce the rate proportionately for band treatments.)

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TOMATOES (Direct Seeded [California only] and Transplanted)

For control of garden symphylans and wireworms, apply 2 quarts (for symphylans) or 1 gallon (for symphylans and wireworms) DYFONATE 4-EC per acre, broadcast, prior to planting and incorporate into the soil using suitable tillage equipment. For garden symphylans only, reduce the rate proportionately for band treatments.

TANKMIX DIRECTIONS TOMATOES (Direct Seeded [California only] and Transplanted)

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Apply 2-2/3 to 4 quarts TILLAM 6-E plus 2 to 4 pounds DEVRINOL 50-WP OR 50-DF or 2 to 4 quarts DEVRINOL 2-E plus 2 quarts DYFONATE 4-EC for control of symphylans or 4 quarts for control of symphylans and wireworms in 25 to 50 gallons of water per broadcast acre. Use the lower DEVRINOL and TILLAM rates on light soils (coarse texture-sandy) and the higher rates on heavy soils (fine textured-clay). Do not use hotcaps on transplanted tomatoes.

IMPORTANT: For general use precautions, weeds controlled, and directions for use, refer to the TILLAM 6-E or DEVRINOL 50-WP, 50-DF, or 2-E labels for tankmix recommendations.

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APPENDIX I

PROCEDURE FOR TESTING THE TANKMIX COMPATIBILITY OF DYFONATE 4-EC WITH FLUID FERTILIZERS AND DYFONATE 4-EC WITH HERBICIDES AND WATER OR FLUID FERTILIZERS.

This procedure is suggested for determining whether DYFONATE 4-EC and a specific fluid fertilizer and/or the specifically approved herbicide(s) may be combined for spray tank application.

Materials Required:

- 1. a. DYFONATE 4-EC.
 - b. DYFONATE 4-EC/herbicide combinations (EDGE, EPTAM 7-E, ERADICANE 6.7-E, SUTAN+ 6.7-E, TILLAM 6-E, Atrazine 80W or 4L, or Bladex 80W or 4L.
- 2. Water or fluid fertilizer to be used.
- 3. Adjuvant for tankmix Compex[™], Sponto[™] 168-D, Unite[™] or equivalent. The adjuvant which performs best depends on the specific fertilizer being considered.
- 4. Two one-quart, wide-mouth glass jars with tops.
- Measuring spoons (a graduated cylinder or pipette will provide more accurate measuremen⁺).
- 6. Measuring cup, 8 oz. (237 mL)

Procedure:

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- 1. Add one pint (2 cups or approximately 473 mL) of the test water or fluid fertilizer to each of the quart jars.
- 2. Add adjuvant to one of the jars and mix (see rate tables).
- 3. Carefully add the pesticides to each jar (see rate tables) as follows:
 - a. If only DYFONATE 4-EC is to be used, add it directly to each jar.
 - b. If a tankmix with a herbicide emulsifiable concentrate is to be used, add the herbicide first and mix, and then add the DYFONATE 4-EC.
 - c. If a tankmix with a herbicide emulsifiable concentrate and a wettable powder or flowable formulation is to be used, add and mix the pesticides in the following order:
 - (1) add and mix the wettable powder or flowable formulation first (premixing these in water prior to addition to fluid fertilizer often provides a more compatible mix with fluid fertilizer),
 - (2) Add and mix the herbicide emulsifiable concentrate second,
 - (3) and finally, add the DYFONATE 4-EC.

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- 4. Securely close each jar using the top and mix the contents by inverting the jar ten times.
- 5. Inspect the mixtures immediately and after standing for thirty minutes without mixing.
- 6. Dispose of jar mixes according to disposal statements contained within this label.

A mixture may be incompatible if either of the following conditions is observed:

- a. an oil layer or large oil globules are observed, or
- b. sludge or clumps are present.

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If either mixture remains uniform for thirty minutes, the combination may be used. Should either mixture separate after thirty minutes, but remix readily with ten jar inversions, the combination can be used if good agitation is maintained in the spray tank. If nondispersible oil, sludge or clumps persist, the combination must not be used.

If the mixture with the adjuvant stays mixed, or remixes readily to form a uniform dispersion, but the one without adjuvant does not, be sure to use the adjuvant in the spray tank. Add the adjuvant first to the water or fluid fertilizer at the recommended rate. Minimize foaming by using moderate agitation.

	DYFONATE 4-EC AND AD THE FLUID FERTILIZER	JUVANT**		
Gallons of Fluid Fertilizer To Be Applied Per Acre	Fertilizer To Be To Be Added to One Pint			
	mL	Tsp.		
10	12	2-1/2		
15	8	1-2/3		
20	6	1-1/4		
25	5	1		
40	3	2/3		

Based on a fluid rate of one pound active ingredient per acre in the fertilizer volumes indicated. Adjust volume proportionately to correspond with intended rate in terms of pounds active ingredient per acre (e.g. for a field rate of 2 pounds active ingredient in 10 gallons of fertilizer per acre, add 24 mL or 5 tsp. DYFONATE 4-EC to each jar for compatibility testing purposes).

** A typical adjuvant rate of use is 3 pints per 100 gallons of fluid fertilizer. Two (2) milliliters or one-half (1/2) teaspoon of adjuvant should be added to 1 pint of fertilizer in order to equal a rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

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RATE TABLE		TE 4-EC/EPTAM E FLUID FERTILIZ		ANT**	
Gallons of Fluid Fertilizer To Be Applied Per Acre	of DYFON/ Be adde	r Teaspoons ATE 4-EC* to d to 1 Pint ertilizer	Milliliters or Teaspoons of EPTAM 7-E* to Be Added to 1 Pint of Fertilizer		
	mL	Tsp.	mL	Tsp.	
10	12	2-1/2	6-2/3	1-1/3	
15	8	1-2/3	5	1	
20	6	1-1/4	3-1/3	2/3	
25	5	1	2-1/2	1/2	
40	3	2/3	1-2/3	1/3	

- * Based on a field rate of one pound active ingredient per acre in the fertilizer volumes indicated. Adjust volumes proportionately to correspond with intended field rates in terms of pounds active ingredients per acre (e.g. for a field rate of 3 pounds of actual EPTAM 7-E in 20 gallons of fertilizer per acre, add 10 mL or 2 tsp. of EPTAM 7-E to each jar for compatibility testing purposes).
- ** A typical adjuvant rate of use is 3 pints per 100 gallons of fluid fertilizer. Two (2) milliliters or one-half (1/2) teaspoon of adjuvant should be added to 1 pint of fertilizer in order to equal a rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

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RATE TABLE FOR SUTAN+			6.7-E AND DYFON	
Gallons of FluidMilliliters or TeaspoonsMilliliters or TeaspoonsGallons of Fluidof DYFONATE 4-EC* toof ERADICANE 6.7-EFertilizer To BeBe added to 1 PintSUTAN+ 6.7-E To Be AApplied Per Acreof Fertilizerto 1 Pint of Fertilizer				NE 6.7-E* or To Be Added
	mL	Tsp.	mL	Tsp.
10	12	2-1/2	7	1-1/2
15	8	1-2/3	5	1
20	6	1-1/4	3-1/2	3/4
25	5	1	2-1/2	1/2
40	3	2/3	1-3/4	1/3

 Based on a field rate of one pound active ingredient per acre in the fertilizer volumes indicated. Adjust volumes proportionately to correspond with intended field rates in terms of pounds active ingredients per acre (e.g. for a field rate of 4 pounds of actual SUTAN+ 6.7-E in 20 gallons of fertilizer per acre, add 14 mL or 3 tsp. of SUTAN+ 6.7-E to each jar for compatibility testing purposes).

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** A typical adjuvant rate of use is 3 pints per 100 gallons of fluid fertilizer. Two (2) milliliters or one-half (1/2) teaspoon of adjuvant should be added to 1 pint of fertilizer in order to equal a rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

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RATE TABLE FOR DYFONATE 4-EC/ERADICANE 6.7-E/ATRAZINE OR BLADEX AND DYFONATE 4-E SUTAN+ 6.7-E/ATRAZINE OR BLADEX AND ADJUVANT** WITH WATER OR FLUID FERTILIZER

Gallons of Water or Fluid	10		15		20			1 3 2 1/2 1-3	
Fertilizer To Be Applied/Acre Measure	mL	Tsp.	mL	Tsp.	mL	Tsp.	mL	Tsp.	m
Milliliters or Teaspoons of DYFONATE 4-EC* To Be Added To 1 Pint of Water or Fertilizer	12	2-1/2	8	1-2/3	6	1-1/4	5	1	3
Milliliters or Teaspoons of ERADICANE 6.7-E* or SUTAN+ 6.7-E* To Be Added To 1 Pint of Water or Fertilizer	7	1-1/2	5	1	3-1/2	3/4	2-1/2	1/2	1-3
Milliliters or Teaspoons of Atrazine 80W* or Bladex 80W* To Be Added to 1 Pint of Water or Fertilizer	22	4-1/2	15	3	11	2-1/4	8-2/3	1-3/4	5
Milliliters or Teaspoons of Atrazine 4L* or Bladex 4L* To Be Added to 1 Pint of Water or Fertilizer	12	2-1/2	8	1-2/3	6	1-1/4	5	1	3

* Based on a field rate of one pound active ingredient per acre in the water or fertilizer volumes indicated. Adjust vo proportionately to correspond with intended field rates in terms of pounds active ingredients per acre (e.g. for a field pounds of actual SUTAN+ 6.7-E in 40 gallons of fertilizer per acre, add 7 mL or 1-1/2 tsp. of SUTAN+ 6.7-E to eac compatibility testing purposes, i.e., 4 times the 10-gallon rate for 1 pound equals 28 mL or 6 tsp.; then dividing by t factor four [40 -.10 = 4] gives 7 mL or 1-1/2 tsp. per pint, which is equivalent to 4 pounds actual SUTAN+ 6.7-E/40

** A typical adjuvant rate of use is 3 pints per 100 gallons of fluid fertilizer. Two (2) milliliters or one-half (1/2) teaspoo should be added to 1 pint of fertilizer in order to equal a rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

10	12	2-1/2	8	1-2/3
15	8	1-2/3	5-1/4	1
20	6	1-1/4	4	3/4
25	5	1	3-1/4	2/3
40	3	2/3	2	1/3

- Based on a field rate of one pound active ingredient per acre in the fertilizer volumes indicated. Adjust volumes proportionately to correspond with intended field rates in terms of pounds active ingredients per acre (e.g. for a field rate of 4 pounds of actual TILLAM 6-E in 20 gallons of fertilizer per acre, add 10 mL or 2 tsp. of TILLAM 6-E to each jar for compatibility testing purposes).
- ** A typical adjuvant rate of use is 3 pints per 100 gallons of fluid fertilizer. Two (2) milliliters or one-half (1/2) teaspoon of adjuvant should be added to 1 pint of fertilizer in order to equal a rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

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RATE	TABLE FOR DYFO	NATE 4-EC/EDGE	AND ADJUVAN	T**
Gallons of Fluid Fertilizer to Be Applied Per Acre	Milliliters or Teaspoons of DYFONATE 4-EC* To Be Added to 1 Pint of Fertilizer		EDGE* to t	Teaspoons of be Added to Fertilizer
	mL	Tsp.	mL	Tsp.
10	12	2-1/2	12	2-1/2
15	8	1-2/3	8	1-2/3
20	6	1-1/4	6	1-1/4
25	5	1	5	1
40	3	2/3	3	2/3

* Based on a field rate of one pound active ingredient per acre in the fertilizer volume indicated. Adjust volumes proportionately to correspond with intended field rates in terms of pounds active ingredients per acre (e.g. for a field rate of 4 pounds of EDGE in 20 gallons of fertilizer per acre, add 24 mL or 5 tsp. of EDGE to each jar for compatibility testing purposes).

** A typical adjuvant rate of use is 3 pints per 100 gallons of fluid fertilizer. Two (2) milliliters or one-half (1/2) teaspoon of adjuvant should be added to 1 pint of fertilizer in order to equal a rate of 3 pints of adjuvant per 100 gallons of fluid fertilizer.

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Tankmix Directions

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- 1. Fill the spray tank at least 2/3 full of the appropriate carrier fluid. Be sure tank is clean and not contaminated with 2,4-D type herbicides, oil residue, or other materials.
- 2. Start agitation and continue moderate agitation throughout mixing and application procedures.
- 3. Add the proper amount of adjuvant and mix (if adjuvant is to be used).
- 4. Next, add the Atrazine 8OW or 4L or Bladex 8OW or 4L (if it is to be combined in the tank) and mix to disperse it thoroughly.
- 5. Then add the herbicide emulsifiable concentrate (EDGE, EPTAM 7-E, ERADICANE 6.7-E, SUTAN+ 6.7-E or TILLAM 6-E) and mix thoroughly.
- 6. Lastly, add the DYFONATE 4-EC.
- 7. Complete filling the remaining portion of the tank with carrier fluid; mix thoroughly.
- 8. The tankmix combination should not be left in the spray tank for prolonged periods; batches should be mixed and applied the same day.

NOTE: Constant moderate agitation is required for successful tankmix preparation and application. Avoid excessive agitation which can cause tankmix incompatibility. All return lines to the tank must discharge below liquid level.

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STORAGE AND DISPOSAL

STORAGE: Minimum storage temperature: **MINUS** 40°F. Any steel container may be corroded by its contents. Dents or damage may promote corrosion. Use damaged and older containers FIRST. Inspect rusted cans for leaks.

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: 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.

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IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

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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 hamless 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.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

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