

... of trees, cotton and cole crops

Aromatic Petroleum Distillates	48.7
(INERT INGREDIENTS)	8.1
Total	100.0

Contains 4% Chloroform per gallon  
Net wt (1 gallon) 12.85 N dimethylformamide

### ENVIRONMENTAL HAZARD

This product is toxic to fish. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

### PRECAUTIONS

It is not necessary to use a spreader sticker with FUNDAL 4EC. However, if one is used it is recommended that the tolerance of the crop to such a mixture be determined by first testing it on a small scale. Do not spray shortly before rainfall. Prepare fresh sprays daily. Do not allow prepared solutions to stand overnight. Flush tank thoroughly with water daily after use. Do not use FUNDAL 4EC in alkaline solutions such as those containing lime sulfur or Bordeaux. Do not allow animals to graze in areas treated with FUNDAL 4EC. Do not feed crop residues. Discard unused spray mixture by burying in non crop lands away from water supplies. Perforate empty metal containers and bury in non crop lands away from water supplies.

Product of U.S.A.

NA 4011

783

## WARNING KEEP OUT OF REACH OF CHILDREN

May be harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles when handling. Avoid inhaling vapors or spray mist. Wash with soap and water after handling and before eating or smoking. Wear clean clothes and wash before reusing. Do not contaminate food or feedstuffs.

In case of contact, thoroughly clean skin and clothing. For eyes, flush immediately with water and get medical attention.

**Do not reuse this container.  
Destroy when empty.**

U.S. Patent No. 3,178,437; 3,502,720

# NET CONTENTS 5 GALLONS

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

... of FUNDAL 4EC...  
... below 32 F. Crystals may form if stored under very cold conditions. If this should occur, place container in a warm room (50-80 F) and agitate frequently for several days by rolling and shaking the container until crystals disappear.

### IMPORTANT

#### READ BEFORE PURCHASE OR USE

Purchase or use of this product shall constitute acceptance of the following terms of sale. NOR AM Agricultural Products, Inc. (NOR AM) warrants that this product conforms to the chemical descriptions on this label and is reasonably fit for the purposes specified hereon. By way of limitation but not in derogation of the directions and statements printed on this label, Seller makes no warranty and no representation and NOR AM makes no further warranty or representation, expressed or implied, including but not limited to any warranty as to MERCHANTABILITY, and no agent of NOR AM is authorized to do so except in writing. Specific reference to the foregoing warranty. Since neither Seller nor NOR AM has any control over the handling, storage, use or conditions of use of this product, Buyer or user assumes all risks and liability arising from handling, storage or use of this product under abnormal conditions or not in strict compliance with the directions and precautionary statements hereon. All claims for product shall be barred unless written notice is given to NOR AM within 30 days after the loss is discovered. Liability of the Seller or NOR AM for any damages arising from a breach of this warranty shall be limited to exclude consequential commercial damages.

MANUFACTURED FOR



## NOR-AM®

AGRICULTURAL PRODUCTS, INC.  
CHICAGO, ILLINOIS 60606

**ACCEPTED**  
APR 16 1976  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No. 2157-100

# FUNDAL 4EC

## MITICIDE/INSECTICIDE/OVICIDE

### DIRECTIONS FOR USE

Add the desired amount of FUNDAL 4EC to the spray tank full of water with the agitator running. Then add the remainder of the water to the spray tank. By pass agitation will keep FUNDAL 4EC in suspension.

#### APPLES, PEARS

FUNDAL 4EC is recommended for use at the rate of 1 pint per 100 gallons of spray for the control of mites and insects listed in the table at right.

This dosage of FUNDAL 4EC is based on dilute full cover sprays from conventional sprayers applying 400 to 800 gallons of spray per acre. When lower spray volumes are applied as from a concentrate sprayer, increase the concentration of FUNDAL 4EC in the spray mixture in order to apply the amount per acre equivalent to a dilute spray.

Most orchards of bearing standard size trees will require at least 4 pints of FUNDAL 4EC per acre for satisfactory results.

#### PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS

FUNDAL 4EC is recommended to be used at the rate of 1 pint per 100 gallons for the control of mites and insects listed in the table at right. This rate is based on a dilute full cover spray from conventional sprayers using 400-500 gallons per acre.

#### CABBAGE, BROCCOLI, CAULIFLOWER and BRUSSELS SPROUTS

FUNDAL 4EC is recommended for use at the rate of 1 pint per acre for the control of the insects in the table at right. Use sufficient water for thorough coverage of the crop (at least 20 gallons per acre for ground application on cabbage; at least 50 gallons per acre for ground application on broccoli, cauliflower and brussels sprouts. For aerial application on cabbage use a minimum of 3 gallons per acre).

#### COTTON

FUNDAL 4EC is available for use in all types of ground sprayers and for application by aircraft, using not less than one gallon of spray per acre. FUNDAL 4EC is recommended for use at the following rates: COTTON LEAF PERFORATOR - 1 pint per acre in not less than two gallons of water; BOLLWORM and TOBACCO BUDWORM (California and Arizona) - 1 1/2 pints per acre; BOLLWORM EGGS (all cotton growing areas except California and Arizona) - 1 1/2 pint per acre; TOBACCO BUDWORM EGGS (all cotton growing areas except California and Arizona) - 1 pint per acre.

#### TANK MIX FOR BOLLWORM AND/OR TOBACCO BUDWORM CONTROL

(For all cotton growing areas except California and Arizona)

If egg hatch occurs because of delayed application of FUNDAL or other causes, tank mix 1/2 to 1 pint FUNDAL 4EC per acre with methyl parathion or toxaphene methyl parathion at rates recommended on the labels for these products for bollworm and tobacco budworm control. Apply on a 3-5 day schedule.

#### TANK MIX FOR BOLL WEEVIL CONTROL

If boll weevil becomes a problem in fields being treated for control of bollworm and or tobacco budworm, mix 1/2 to 1 pint FUNDAL 4EC per acre with methyl parathion, toxaphene methyl parathion or Guthion at the recommended rates for these products for boll weevil control.

#### MIXING INSTRUCTIONS FOR TANK MIXES:

Add half the required amount of water to the spray tank. With the agitator running add the desired amount of methyl parathion, toxaphene methyl parathion or Guthion. Continue agitating while adding the remainder of the water followed by the desired amount of FUNDAL. By pass agitation will keep the tank mix in suspension. Always prepare fresh mixtures just prior to use. Tank mixes must be used within 24 hours of mixing.

#### NOTE

To avoid excessive residues observe the following spray and timing restrictions:

**APPLE POST BLOOM.** Do not apply more than 3 gallons FUNDAL 4EC while fruit is on the tree or less than 14 days before harvest.

**PEAR POST BLOOM.** Do not apply more than 3 gallons while fruit is on the tree. Fruit may be picked on the day of application.

**PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS POST BLOOM.** Do not make more than two applications. Do not apply less than 21 days before harvest.

**CABBAGE, BROCCOLI, CAULIFLOWER, BRUSSELS SPROUTS.** Do not make more than 9 applications. Do not apply less than 14 days before harvest.

**COTTON.** Do not apply less than 21 days before harvest. Do not feed foliage from treated cotton plants or gin feed to livestock. NOTE: When used in tank mix with methyl parathion, toxaphene methyl parathion or Guthion, apply FUNDAL 4EC at the rate of 1/2 to 1 pint per acre as described in the table for the

### RECOMMENDED DOSAGES

CROP	PEST	TIME OF APPLICATION
Apples Pears	European red mite Apple rust mite Pear yellow mite Pear rust mite (Pacific Coast only)	PRE BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local recommendations.
	Two spotted mite McDaniel mite Pacific mite	POST BLOOM: Apply when mites appear.
	Codling moth	Apply in cover sprays according to local recommendations.
Apples (Eastern U.S. only)	Leafrollers	Apply in cover sprays according to local recommendations.
Pears	Pear psylla	PRE BLOOM: Apply for adult control and repeat when nymphs appear. POST BLOOM: Apply at petal fall (calyx). Repeat when psylla reappear.
Peaches Nectarines	European red mite Two spotted mite Pacific mite	NON BEARING AND NURSERY TREES: Apply when mites appear. Repeat as necessary.
Peaches Nectarines (West Coast only)	Two spotted mite European red mite McDaniel mite Peach Silver mite	PRE BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local recommendations. POST BLOOM: Apply when mites appear.
Peaches Nectarines	Peach twig borer Oriental fruit moth	Apply when moth flights begin in the Spring.
	Two spotted mite European red mite Pacific mite McDaniel mite Brown almond mite (clover mite) Peach twig borer	PRE BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local recommendations. POST BLOOM: Apply when mites appear.
Plums Prunes	Two spotted mite European red mite Pacific mite McDaniel mite Brown almond mite (clover mite) Peach twig borer	PRE BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local recommendations. POST BLOOM: Apply when mites appear.
Walnuts	Codling moth Two spotted mite European red mite Walnut aphid (suppression)	Apply in the Spring when first brood codling moth flights begin. Repeat when second brood codling moth flights begin. These sprays will control European red mites and Two-spotted mites and will aid in the suppression of walnut aphids.
Cabbage Broccoli Cauliflower Brussels Sprouts	Cabbage looper Imported cabbage worm Diamond back moth	Apply when eggs or small worms first appear. Repeat at 7 to 10 day intervals for continued control.
Cotton	Cotton leaf perforator	Apply when eggs or small larvae appear. Repeat in 7 days. A third application may be necessary in late cotton.
	Bollworm, Tobacco budworm	IN CALIFORNIA AND ARIZONA: Apply on a 5 to 7 day schedule when eggs or small worms appear.
	Bollworm eggs, Tobacco budworm eggs	IN ALL COTTON GROWING AREAS EXCEPT CALIFORNIA AND ARIZONA: Apply on a 3 to 5 day schedule starting when first eggs appear. Continue application as long as eggs are present. When high populations develop, shorten the interval to 3 days. If egg hatch occurs use a tank mix as described in tank mix section.

State Agricultural Experiment Station or State Extension Service Specialists.

Non-bearing trees are those that will not bear fruit within one year after treatment.

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FUNDAL 4EC is based on dilute foliar sprays. Long conventional sprayers applying 400 to 800 gallons of spray per acre. When cover sprays are applied, a higher concentration spray increases the concentration of FUNDAL 4EC in the spray mist on a tree to give the amount per acre equivalent to a dilute spray.

Most methods of bearing standard size trees will require at least 1 cent of FUNDAL 4EC per acre for satisfactory results.

**PEACHES, NECTARINES, PLUMS, PRUNES AND WALNUTS**  
 FUNDAL 4EC is recommended to be used at the rate of 1 pint per 100 gallons for the control of mites and insects listed in the table at right. This rate is based on a dilute foliar spray from conventional sprayers using 400-500 gallons per acre.

**CABBAGE, BROCCOLI, CAULIFLOWER AND BRUSSELS SPROUTS**  
 FUNDAL 4EC is recommended for use at the rate of 1 pint per acre for the control of insects listed in the table at right. Use sufficient water for thorough coverage of the foliage. At least 20 days should be allowed between application of FUNDAL 4EC and harvest. Do not apply to Brussels sprouts until several applications of water have been made.

**COTTON**  
 FUNDAL 4EC is recommended for use at the rate of 1 pint per acre for the control of insects listed in the table at right. Use sufficient water for thorough coverage of the foliage. At least 20 days should be allowed between application of FUNDAL 4EC and harvest. Do not apply to cotton until several applications of water have been made.

**TANK MIX FOR BOLLWORM AND OR TOBACCO BUDWORM CONTROL**  
 (For all cotton growing areas except California and Arizona)  
 If insecticides because of delayed application of FUNDAL 4EC or other causes tank mix to 1 pint FUNDAL 4EC per acre with methyl parathion or toxaphene methyl parathion at the recommended rate of the labels for these products for bollworm and tobacco budworm control. Apply on a 3-5 day schedule.

**TANK MIX FOR BOLLWORM CONTROL**  
 If bollworm becomes a problem in fields tank treated for control of bollworm and or tobacco budworm mix to 1 pint FUNDAL 4EC per acre with methyl parathion, toxaphene methyl parathion or Guthion at the recommended rates for these products for bollworm control.

**MIXING INSTRUCTIONS FOR TANK MIXES**  
 Add half the required amount of water to the spray tank. With the agitator running, add the desired amount of methyl parathion, toxaphene methyl parathion or Guthion. Continue to add water until the desired amount of water followed by the desired amount of FUNDAL 4EC. By pass agitation will keep the tank mix in suspension. Always prepare fresh mixtures just prior to use. Tank mixes must be used within 24 hours of mixing.

**NOTE**  
 To avoid excessive residues observe the following spray and timing restrictions:  
**APPLE POST-BLOOM:** Do not apply more than 3 gallons FUNDAL 4EC while fruit is on the tree or less than 14 days before harvest.  
**PEAR POST-BLOOM:** Do not apply more than 3 gallons while fruit is on the tree. Fruit may be picked on the day of last application.  
**PEACHES, NECTARINES, PLUMS, PRUNES AND WALNUTS POST-BLOOM:** Do not make more than two applications. Do not apply less than 21 days before harvest.  
**CABBAGE, BROCCOLI, CAULIFLOWER, BRUSSELS SPROUTS:** Do not make more than 9 applications. Do not apply less than 14 days before harvest.  
**COTTON:** Do not apply less than 21 days before harvest. Do not feed foliage from treated cotton plants or trash to livestock. **NOTE:** When using FUNDAL in tank mixes with methyl parathion, toxaphene methyl parathion or Guthion, observe all limitations, precautions, and rate recommendations which appear on the labels for these products.  
 Guthion - Trademark of Chemagro.

Pears	Apple rust mite Peach yellow mite Pear rust mite (Pacific Coast only)	POST-BLOOM: Apply when mites appear.
	Two-spotted mite McDaniel mite Peach mite	POST-BLOOM: Apply when mites appear.
	Codling moth	Apply in cover sprays according to local recommendations.
Apples (Eastern, U.S. only)	Leafrollers	Apply in cover sprays according to local recommendations.
Pears	Pear psylla	PRE-BLOOM: Apply for adult control and repeat when nymphs appear. POST-BLOOM: Apply at petal fall (calyx). Repeat when psylla reappear.
Peaches Nectarines	European red mite Two-spotted mite Pacific mite	NON-BEARING AND NURSERY TREES: Apply when mites appear. Repeat as necessary.
Plums Prunes Walnuts (West Coast only)	Two-spotted mite European red mite McDaniel mite Peach silver mite	PRE-BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local recommendations. POST-BLOOM: Apply when mites appear.
	Peach twig borer Oriental fruit moth	Apply when moth flights begin in the Spring.
Pears Prunes	Two-spotted mite European red mite Pacific mite McDaniel mite Brown almond mite (clover mite)	PRE-BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local recommendations. POST-BLOOM: Apply when mites appear.
	Peach twig borer	Apply when moth flights begin in the Spring.
Walnuts	Codling moth Two-spotted mite European red mite Walnut aphid (suppression)	Apply in the Spring when first brood codling moth flights begin. Repeat when second brood codling moth flights begin. These sprays will control European red mites and Two-spotted mites and will aid in the suppression of walnut aphids.
Cabbage Broccoli Cauliflower Brussels Sprouts	Cabbage looper Imported cabbage worm Diamond-back moth	Apply when eggs or small worms first appear. Repeat at 7 to 10 day intervals for continued control.
Cotton	Cotton leaf perforator Bollworm Tobacco budworm Bollworm eggs Tobacco budworm eggs	Apply when eggs or small larvae appear. Repeat in 7 days. A third application may be necessary in late cotton. IN CALIFORNIA AND ARIZONA: Apply on a 5 to 7 day schedule when eggs or small worms appear. IN ALL COTTON GROWING AREAS EXCEPT CALIFORNIA AND ARIZONA: Apply on a 3-5 day schedule starting when eggs first appear. Continue application as long as eggs are present. When high populations develop shorten the interval to 3 days. If one hatch occurs use a tank mix as described in tank mix instructions.

State Agricultural Experiment Station or State Extension Service Specialists.  
 Non-bearing trees are those that will not bear fruit within one year after treatment.  
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**NOR-AM**  
 A GENERAL PURPOSE PRODUCT  
 CHICAGO, ILL. INDIANAPOLIS, IN.

# FUNDAL 4EC

## MITICIDE/INSECTICIDE/OVICIDE

### GENERAL INFORMATION

FUNDAL 4EC is a water emulsifiable miticide insecticide ovicide for the control of certain insects and mites of fruit trees, cotton and cole crops.

### ENVIRONMENTAL HAZARD

This product is toxic to fish. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

### PRECAUTIONS

It is not necessary to use a spreader sticker with FUNDAL 4EC. However, if one is used it is recommended that the tolerance of the crop to such a mixture be determined by first testing it on a small scale. Do not spray shortly before rainfall. Prepare fresh sprays daily. Do not allow prepared solutions to stand overnight. Flush tank thoroughly with water daily after use. Do not use FUNDAL 4EC in alkaline solutions such as the emulsifying lime-sulfur or Bordeaux. Do not allow animals to graze in areas treated with FUNDAL 4EC. Do not feed crop residues. Discard unused spray mixture by burying in non crop lands away from water supplies. Perforate empty metal containers and bury in non crop lands away from water supplies.

### E.P.A. Reg.

#### ACTIVE INGREDIENTS

Chlordimeform 48.5%

Aromatic Petro 43.4%

#### INERT INGREDIENTS

48.5%

43.4%

8.1%

100.0%

Contains 4 lbs. Chlordimeform per gallon.  
N (4 Chloro o tolyl N,N dimethylformamide)

### WARNING

#### KEEP OUT OF REACH OF CHILDREN

May be harmful or fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles when handling. Avoid inhaling vapors or spray mist. Wash with soap and water after handling and before eating or smoking. Wear clean clothes and wash before reusing. Do not contaminate food or feedstuffs.

In case of contact, thoroughly clean skin and clothing. For eyes, flush immediately with water and get medical attention.

**Do not reuse this container.  
Destroy when empty.**

U. S. Patent Nos. 3,378,437 3,502,720

## NET CONTENTS 5 GALLONS

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS

### STORAGE AND HANDLING INSTRUCTIONS

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. Do not store at temperatures below 32°F. Crystals may form if stored under very cold conditions. If this should occur place container in a warm room (50-80°F) and agitate frequently for several days by rolling and shaking the container until crystals disappear.

### IMPORTANT

#### READ BEFORE PURCHASE OR USE

Purchase or use of this product shall constitute acceptance of the following terms of sale. NOR-AM Agricultural Products, Inc. (NOR-AM) warrants that this product conforms to the chemical descriptions on this label and is reasonably fit for the purposes specified hereon. By way of limitation but not in derogation of the directions and statements printed on this label, Seller makes no warranty and no representation and NOR-AM makes no further warranty or representation, expressed or implied, including but not limited to any warranty as to MERCHANTABILITY, and no agent of NOR-AM is authorized to do so except in writing, with a specific reference to the foregoing warranty. Since neither Seller nor NOR-AM has any control over the handling, storage, use or conditions of use of this product, Buyer or User assumes all risks and liability arising from handling, storage or use of this product under abnormal conditions or not in strict compliance with the directions and precautionary statements hereon. All claims related to the purchase, handling, storage or use of this product shall be barred unless written notice is given to NOR-AM within 30 days after the loss is discovered. Liability of the Seller or NOR-AM for any damages arising from a breach of this warranty shall be limited to exclude consequential commercial damages.

### ENVIRONMENTAL HAZARD

This product is toxic to fish. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

### PRECAUTIONS

It is not necessary to use a spreader sticker with FUNDAL 4EC. However, if one is used it is recommended that the tolerance of the crop to such a mixture be determined by first testing it on a small scale. Do not spray shortly before rainfall. Prepare fresh sprays daily. Do not allow prepared solutions to stand overnight. Flush tank thoroughly with water daily after use. Do not use FUNDAL 4EC in alkaline solutions such as those containing lime-sulfur or Bordeaux. Do not allow animals to graze in areas treated with FUNDAL 4EC. Do not feed crop residues. Discard unused spray mixture by burying in non-crop lands away from water supplies. Perforate empty metal containers and bury in non-crop lands away from water supplies.

Product of U.S.A.

NA 4011

783

Total: 100.0  
Contains 4 lbs. Chlordaneform per gallon  
N (4-Chloro o tolyl) N,N-dimethylformamide

## WARNING KEEP OUT OF REACH OF CHILDREN

May be harmful or fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Wear goggles when handling. Avoid inhaling vapors or spray mist. Wash with soap and water after handling and before eating or smoking. Wear clean clothes and wash before reusing. Do not contaminate food or feedstuffs.

In case of contact, thoroughly clean skin and clothing. For eyes, flush immediately with water and get medical attention.

Do not reuse this container.  
Destroy when empty.

U.S. Patent Nos. 3,378,437 3,502,720

# NET CONTENTS 5 GALLONS

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONS



## NOR-AM

### IMPORTANT

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ACCEPTED

APR 16 1976

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, this pesticide has been found to comply with the requirements of the Act and is hereby registered under EPA Reg. No. 227.10.1-001

## STORAGE AND HANDLING INSTRUCTIONS

DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME. Do not store at temperatures below 32°F. Crystals may form if stored under very cold conditions. If this should occur place container in a warm room (50-80°F) and agitate frequently for several days by rolling and shaking the container until crystals disappear.

## IMPORTANT:

### READ BEFORE PURCHASE OR USE

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## DIRECTIONS FOR USE

Add the desired amount of FUNDAL 4EC to the spray tank  $\frac{3}{4}$  full of water with the agitator running. Add the remainder of the water to the spray tank. By pass agitation will keep FUNDAL 4EC in suspension.

### APPLES, PEARS:

FUNDAL 4EC is recommended for use at the rate of 1 pint per 100 gallons of spray for the insects listed in the table at right.

This dosage of FUNDAL 4EC is based on dilute full cover sprays from conventional spray equipment. When lower spray volumes are applied, as from a concentrate, increase the concentration of FUNDAL 4EC in the spray mixture in order to apply the amount per acre of spray.

Most orchards of bearing standard size trees will require at least 4 pints of FUNDAL 4EC per acre for satisfactory results.

### PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS:

FUNDAL 4EC is recommended to be used at the rate of 1 pint per 100 gallons for the control of the insects listed in the table at right. This rate is based on a dilute full cover spray from conventional spray equipment.

### CABBAGE, BROCCOLI, CAULIFLOWER and BRUSSELS SPROUTS:

FUNDAL 4EC is recommended for use at the rate of 1 pint per acre for the control of the insects listed in the table at right. Use sufficient water for thorough coverage of the crop (at least 20 gallons per acre for cabbage; at least 50 gallons per acre for ground application on broccoli, cauliflower and aerial applications on cabbage; use a minimum of 3 gallons per acre).

### COTTON:

FUNDAL 4EC is suitable for use in all types of ground sprayers and for application by aircraft. One gallon of spray per acre. FUNDAL 4EC is recommended for use at the following rates: FORATOR—1-1 $\frac{1}{2}$  pints per acre in not less than two gallons of water. BOLLWORM, and 1 (California and Arizona)—1-2 pints per acre. BOLLWORM EGGS (all cotton growing areas except California and Arizona)— $\frac{1}{2}$ -1 pint per acre. TOBACCO BUDWORM EGGS (all cotton growing areas except California and Arizona)— $\frac{1}{2}$ -1 pint per acre.

### TANK MIX FOR BOLLWORM AND/OR TOBACCO BUDWORM CONTROL

(For all cotton growing areas except California and Arizona)

If egg hatch occurs because of delayed application of FUNDAL or other causes, tank mix 1 pint per acre with methyl parathion or toxaphene/methyl parathion at rates recommended on the labels of these products for bollworm and tobacco budworm control. Apply on a 3-5 day schedule.

### TANK MIX FOR BOLL WEEVIL CONTROL

If boll weevil becomes a problem in fields being treated for control of bollworm and/or tobacco budworm, add 1 pint FUNDAL 4EC per acre with methyl parathion, toxaphene/methyl parathion or Guthion at the recommended rates for these products for boll weevil control.

### MIXING INSTRUCTIONS FOR TANK MIXES:

Add half the required amount of water to the spray tank. With the agitator running add the remaining half of the water. Continue agitating while adding the remaining half of the water. Followed by the desired amount of FUNDAL. By-pass agitation will keep the tank mix in suspension. Prepare fresh mixtures just prior to use. Tank mixes must be used within 24 hours of mixing.

### NOTE

To avoid excessive residues observe the following spray and timing restrictions:  
**APPLE POST-BLOOM:** Do not apply more than 3 gallons FUNDAL 4EC while fruit is on the tree. Do not apply less than 21 days before harvest.

**PEAR POST-BLOOM:** Do not apply more than 3 gallons while fruit is on the tree. Fruit may be lost if applied less than 21 days before harvest.

**PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS POST-BLOOM:** Do not make more than 9 applications. Do not apply less than 21 days before harvest.

**CABBAGE, BROCCOLI, CAULIFLOWER, BRUSSELS SPROUTS:** Do not make more than 9 applications. Do not apply less than 14 days before harvest.

**COTTON:** Do not apply less than 21 days before harvest. Do not feed foliage from treated areas to livestock. NOTE: When using FUNDAL in tank mixes with methyl parathion, toxaphene or Guthion, observe all limitations, precautions and rate recommendations which appear on the labels of these products.

Guthion is a trademark of Chemagro.

ACCEPTED

APR 16 1976

Under the Federal Food, Drug, and Cosmetic Act

LITHO'D IN U.S.A.

# FUNDAL 4EC

MITHIOXALATE INSECTICIDE

## DIRECTIONS FOR USE

Add the desired amount of FUNDAL 4EC to the spray tank  $\frac{3}{4}$  full of water with the agitator running. Then add the remainder of the water to the spray tank. By-pass agitation will keep FUNDAL 4EC in suspension.

### APPLES, PEARS:

FUNDAL 4EC is recommended for use at the rate of  $\frac{1}{2}$  pint per 100 gallons of spray for the control of mites and insects listed in the table at right.

This dosage of FUNDAL 4EC is based on dilute full cover sprays from conventional sprayers applying 400 to 800 gallons of spray per acre. When lower spray volumes are applied, as from a concentrate sprayer, increase the concentration of FUNDAL 4EC in the spray mixture in order to apply the amount per acre equivalent to a dilute spray.

Most orchards of bearing standard size trees will require at least 4 pints of FUNDAL 4EC per acre for satisfactory results.

### PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS:

FUNDAL 4EC is recommended to be used at the rate of 1 pint per 100 gallons for the control of mites and insects listed in the table at right. This rate is based on a dilute full cover spray from conventional sprayers using 400-500 gallons per acre.

### CABBAGE, BROCCOLI, CAULIFLOWER and BRUSSELS SPROUTS:

FUNDAL 4EC is recommended for use at the rate of 1 pint per acre for the control of the insects in the table at right. Use sufficient water for thorough coverage of the crop (at least 20 gallons per acre for ground application on cabbage; at least 50 gallons per acre for ground application on broccoli, cauliflower and brussels sprouts. For aerial applications on cabbage, use a minimum of 3 gallons per acre).

### COTTON:

FUNDAL 4EC is suitable for use in all types of ground sprayers and for application by aircraft, using not less than one gallon of spray per acre. FUNDAL 4EC is recommended for use at the following rates: COTTON LEAF PERFORATOR—1-1 $\frac{1}{2}$  pints per acre in not less than two gallons of water. BOLLWORM, and TOBACCO BUDWORM (California and Arizona)—1-2 pints per acre. BOLLWORM EGGS (all cotton growing areas except California and Arizona)— $\frac{1}{2}$ -1 pint per acre. TOBACCO BUDWORM EGGS (all cotton growing areas except California and Arizona)— $\frac{1}{2}$ -1 pint per acre.

### TANK MIX FOR BOLLWORM AND/OR TOBACCO BUDWORM CONTROL

(For all cotton growing areas except California and Arizona)

If egg hatch occurs because of delayed application of FUNDAL or other causes, tank mix  $\frac{1}{4}$  to 1 pint FUNDAL 4EC per acre with methyl parathion or toxaphene/methyl parathion at rates recommended on the labels for these products for bollworm and tobacco budworm control. Apply on a 3-5 day schedule.

### TANK MIX FOR BOLL WEEVIL CONTROL

If boll weevil becomes a problem in fields being treated for control of bollworm and/or tobacco budworm, mix  $\frac{1}{4}$  to 1 pint FUNDAL 4EC per acre with methyl parathion, toxaphene, methyl parathion or Guthion<sup>3</sup> at the recommended rates for these products for boll weevil control.

### MIXING INSTRUCTIONS FOR TANK MIXES:

Add half the required amount of water to the spray tank. With the agitator running add the desired amount of methyl parathion, toxaphene/methyl parathion or Guthion. Continue agitating while adding the remainder of the water followed by the desired amount of FUNDAL. By-pass agitation will keep the tank mix in suspension. Always prepare fresh mixtures just prior to use. Tank mixes must be used within 24 hours of mixing.

### NOTE

To avoid excessive residues observe the following spray and timing restrictions:

**APPLE POST-BLOOM:** Do not apply more than 3 gallons FUNDAL 4EC while fruit is on the tree or less than 14 days before harvest.

**PEAR POST-BLOOM:** Do not apply more than 3 gallons while fruit is on the tree. Fruit may be picked on the day of last application.

**PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS POST-BLOOM:** Do not make more than two applications. Do not apply less than 21 days before harvest.

**CABBAGE, BROCCOLI, CAULIFLOWER, BRUSSELS SPROUTS:** Do not make more than 9 applications. Do not apply less than 14 days before harvest.

**COTTON:** Do not apply less than 21 days before harvest. Do not feed foliage from treated cotton plants or give to livestock. NOTE: When using FUNDAL in tank mixes with methyl parathion, toxaphene, methyl parathion or Guthion, observe all limitations, precautions and rate recommendations which appear on the labels for these products.

## RECOMMENDED DOSAGES

CROP	PEST	TIME OF APPLICATION
Apples Pears	European red mite Apple rust mite Pear yellow mite Pear rus' mite (Pacific Coast only)	<b>PRE-BLOOM:</b> For control of eggs and early hatching nymphs apply at any time up to bloom according to local* recommendations. <b>POST-BLOOM:</b> Apply when mites appear.
	Two-spotted mite McDaniel mite Pacific mite Codling moth	<b>POST-BLOOM:</b> Apply when mites appear. Apply in cover sprays according to local* recommendations.
	Leafrollers	Apply in cover sprays according to local* recommendations.
	Pear psylla	<b>PRE-BLOOM:</b> Apply for adult control and repeat when nymphs appear. <b>POST-BLOOM:</b> Apply at petal fall (calyx). Repeat when psylla reappear.
Peaches Nectarines	European red mite Two-spotted mite Pacific mite	<b>NON-BEARING AND NURSERY TREES:**</b> Apply when mites appear. Repeat as necessary.
Peaches Nectarines (West Coast only)	Two-spotted mite European red mite McDaniel mite Peach Silver mite	<b>PRE-BLOOM:</b> For control of eggs and early hatching nymphs apply at any time up to bloom according to local* recommendations. <b>POST-BLOOM:</b> Apply when mites appear.
	Peach twig borer Oriental fruit moth	Apply when moth flights begin in the Spring.
Plums Prunes	Two-spotted mite European red mite Pacific mite McDaniel mite Brown almond mite (clover mite) Peach twig borer	<b>PRE-BLOOM:</b> For control of eggs and early hatching nymphs apply at any time up to bloom according to local* recommendations. <b>POST-BLOOM:</b> Apply when mites appear. Apply when moth flights begin in the Spring.
	Walnuts	Codling moth Two-spotted mite European red mite Walnut aphid (suppression)
Cabbage Broccoli Cauliflower Brussels Sprouts	Cabbage looper Imported cabbage worm Diamond-back moth	Apply when eggs or small worms first appear. Repeat at 7 to 10 day intervals for continued control.
Cotton	Cotton leaf perforator	Apply when eggs or small larvae appear. Repeat in 7 days. A third application may be necessary in late cotton.
	Bollworm, Tobacco budworm	<b>IN CALIFORNIA AND ARIZONA:</b> Apply on a 5 to 7 day schedule when eggs or small worms appear.
	Bollworm eggs, Tobacco budworm eggs	<b>IN ALL COTTON GROWING AREAS EXCEPT CALIFORNIA AND ARIZONA:</b> Apply on a 3-5 day schedule starting when eggs first appear. Continue application as long as eggs are present. When high populations develop, shorten the interval to 3 days. If egg hatch occurs use a tank mix as described in tank mix instructions.

<sup>3</sup>State Agricultural Experiment Station or State Extension Service Specialists.

\*\*Non-bearing trees are those that will not bear fruit within one year after treatment

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insects listed in the table at right.

This dosage of FUNDAL 4EC is based on dilute full cover sprays from conventional sprayers applying 400 to 800 gallons of spray per acre. When lower spray volumes are applied, as from a concentrate sprayer, increase the concentration of FUNDAL 4EC in the spray mixture in order to apply the amount per acre equivalent to a dilute spray.

Most orchards of bearing standard size trees will require at least 4 pints of FUNDAL 4EC per acre for satisfactory results.

**PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS:**

FUNDAL 4EC is recommended to be used at the rate of 1 pint per 100 gallons for the control of mites and insects listed in the table at right. This rate is based on a dilute full cover spray from conventional sprayers using 400-500 gallons per acre.

**CABBAGE, BROCCOLI, CAULIFLOWER and BRUSSELS SPROUTS:**

FUNDAL 4EC is recommended for use at the rate of 1 pint per acre for the control of the insects in the table at right. Use sufficient water for thorough coverage of the crop (at least 20 gallons per acre for ground application on cabbage; at least 50 gallons per acre for ground application on broccoli, cauliflower and brussels sprouts. For aerial applications on cabbage, use a minimum of 3 gallons per acre).

**COTTON:**

FUNDAL 4EC is suitable for use in all types of ground sprayers and for application by aircraft, using not less than one gallon of spray per acre. FUNDAL 4EC is recommended for use at the following rates: COTTON LEAF PERFORATOR—1 1/2 pints per acre in not less than two gallons of water. BOLLWORM, and TOBACCO BUDWORM (California and Arizona)—1-2 pints per acre. BOLLWORM EGGS (all cotton growing areas except California and Arizona)—1 1/2 pints per acre. TOBACCO BUDWORM EGGS (all cotton growing areas except California and Arizona)—1 pint per acre.

**TANK MIX FOR BOLLWORM AND/OR TOBACCO BUDWORM CONTROL**

(For all cotton growing areas except California and Arizona)

If egg hatch occurs because of delayed application of FUNDAL or other causes, tank mix 1/4 to 1 pint FUNDAL 4EC per acre with methyl parathion or toxaphene methyl parathion at rates recommended on the labels for these products for bollworm and tobacco budworm control. Apply on a 3-5 day schedule.

**TANK MIX FOR BOLL WEEVIL CONTROL**

If boll weevil becomes a problem in fields being treated for control of bollworm and/or tobacco budworm, mix 1/4 to 1 pint FUNDAL 4EC per acre with methyl parathion, toxaphene methyl parathion or Guthion\* at the recommended rates for these products for boll weevil control.

**MIXING INSTRUCTIONS FOR TANK MIXES:**

Add half the required amount of water to the spray tank. With the agitator running add the desired amount of methyl parathion, toxaphene/methyl parathion or Guthion\*. Continue agitating while adding the remainder of the water followed by the desired amount of FUNDAL. By-pass agitation will keep the tank mix in suspension. Always prepare fresh mixtures just prior to use. Tank mixes must be used within 24 hours of mixing.

**NOTE**

To avoid excessive residues observe the following spray and timing restrictions:

**APPLE POST-BLOOM:** Do not apply more than 3 gallons FUNDAL 4EC while fruit is on the tree or less than 14 days before harvest.

**PEAR POST-BLOOM:** Do not apply more than 3 gallons while fruit is on the tree. Fruit may be picked on the day of last application.

**PEACHES, NECTARINES, PLUMS, PRUNES and WALNUTS POST-BLOOM:** Do not make more than two applications. Do not apply less than 21 days before harvest.

**CABBAGE, BROCCOLI, CAULIFLOWER, BRUSSELS SPROUTS:** Do not make more than 9 applications. Do not apply less than 14 days before harvest.

**COTTON:** Do not apply less than 21 days before harvest. Do not feed foliage from treated cotton plants or give fresh to livestock. NOTE: When using FUNDAL in tank mixes with methyl parathion, toxaphene/methyl parathion or Guthion\*, observe all limitations, precautions and rate recommendations which appear on the labels for these products.

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	Pear rust mite	POST-BLOOM: Apply when mites appear
	Pear rust mite (Pacific Coast only)	
	Two-spotted mite McDaniel mite Pacific mite	POST-BLOOM: Apply when mites appear
	Codling moth	Apply in cover sprays according to local* recommendations.
Apples (Eastern, U.S. only)	Leafrollers	Apply in cover sprays according to local* recommendations.
Pears	Pear psyllid	PRE-BLOOM: Apply for adult control and repeat when nymphs appear. POST-BLOOM: Apply at petal fall (calyx). Repeat when psylla reappear.
Peaches Nectarines	European red mite Two-spotted mite Pacific mite	NON-BEARING AND NURSERY TREES:** Apply when mites appear. Repeat as necessary.
Peaches Nectarines (West Coast only)	Two-spotted mite European red mite McDaniel mite Peach Silver mite	PRE-BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local* recommendations. POST-BLOOM: Apply when mites appear.
	Peach twig borer Oriental fruit moth	Apply when moth flights begin in the Spring.
Plums Prunes	Two-spotted mite European red mite Pacific mite McDaniel mite Brown almond mite (clover mite)	PRE-BLOOM: For control of eggs and early hatching nymphs apply at any time up to bloom according to local* recommendations. POST-BLOOM: Apply when mites appear.
	Peach twig borer	Apply when moth flights begin in the Spring.
Walnuts	Codling moth Two-spotted mite European red mite Walnut aphid (suppression)	Apply in the Spring when first brood codling moth flights begin. Repeat when second brood codling moth flights begin. These sprays will control European red mites and Two-spotted mites and will aid in the suppression of walnut aphids.
Cabbage Broccoli Cauliflower Brussels Sprouts	Cabbage looper Imported cabbage worm Diamond-back moth	Apply when eggs or small worms first appear. Repeat at 7 to 10 day intervals for continued control.
Cotton	Cotton leaf perforator	Apply when eggs or small larvae appear. Repeat in 7 days. A third application may be necessary in late cotton.
	Bollworm, Tobacco budworm	IN CALIFORNIA AND ARIZONA: Apply on a 5 to 7 day schedule when eggs or small worms appear.
	Bollworm eggs, Tobacco budworm eggs	IN ALL COTTON GROWING AREAS EXCEPT CALIFORNIA AND ARIZONA: Apply on a 3-5 day schedule starting when eggs first appear. Continue application as long as eggs are present. When high populations develop, shorten the interval to 3 days. If egg hatch occurs use a tank mix as described in tank mix instructions.

\* State Agricultural Experiment Station or State Extension Service Specialists.

\*\* Non-bearing trees are those that will not bear fruit within one year after treatment.

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