

# SPECIMEN LABEL

## RESTRICTED USE PESTICIDE

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 Applicators Certification.

FOR AGRICULTURAL USE ONLY

ACCEPTED  
OCT 5 1987  
Use only for those...  
as shown on the pesticide label.  
Registered under the provisions of  
EPA Reg. No. 45639-13

# FUNDAL SP

## INSECTICIDE/OVICIDE FOR USE ON COTTON

Packed in Soluble Bag

### ACTIVE INGREDIENT:

Chlordimeform hydrochloride\* 97.0%  
\*N-(4-chloro-p-tolyl)-N, N-dimethylformamidine  
monohydrochloride

### INERT INGREDIENTS

Total 3.0%  
100.0%

EPA Reg. No. 45639-73

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que el etiqueta haya sido explicado ampliamente.

**NOTE:** This product has been shown to cause cancer in laboratory animals. The user must read and follow all precautionary statements and instructions for use on label of the container.

## KEEP OUT OF REACH OF CHILDREN WARNING—AVISO STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: CONTACT A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. PROMPTLY DRINK AT LEAST 1 TO 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING BACK OF THROAT WITH FINGER. DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF IN EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION.

IF ON SKIN: IMMEDIATELY REMOVE CONTAMINATED CLOTHING, WIPING AWAY EXCESS MATERIAL FROM SKIN. WASH SKIN WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION.

IF INHALED: MOVE TO FRESH AIR.

**NOTE TO PHYSICIAN:** THERE IS NO SPECIFIC ANTIDOTE FOR FUNDAL SP INGESTION. INDUCE EMESIS OR LAVAGE STOMACH. GIVE A SALINE LAXATIVE AND SUPPORTIVE THERAPY. SYMPATHOMIMETIC DRUGS SHOULD BE AVOIDED AS THESE MAY HAVE POTENTIATED EFFECTS (E.G., HYPERTENSIVE CRISIS).

### SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONS

THIS BOX CONTAINS FUNDAL SP IN A WATER SOLUBLE BAG. INNER BAG AND CONTENTS DISSOLVE IN WATER. AFTER OPENING OUTER BOX, OPEN FOIL LINER AND IMMEDIATELY DUMP ENTIRE UNOPENED INNER BAG INTO THE CLOSED-SYSTEM MIX TANK. DO NOT HANDLE SOLUBLE BAG OR EXPOSE IT TO MOISTURE SINCE THIS MAY CAUSE BREAKAGE.

DO NOT REUSE THIS CONTAINER. DESTROY WHEN EMPTY.

**NOR-AM**  
NOR-AM CHEMICAL COMPANY

3509 Silverside Road, P.O. Box 7495  
Wilmington, DE 19803

NET CONTENTS:

U.S. Patent No. 4,274,411

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS

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, drinking or smoking. Wear clean clothes and wash before reusing. Do not contaminate food or feedstuffs.

**NOTE:** This product has been shown to cause cancer in laboratory animals. The user must read and follow all precautionary statements and instructions for use on label of the container.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Do not apply directly to water or wetland. 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. FUNDAL<sup>®</sup> SP, when used alone, has little or no effect on predators, beneficial insects and bees.

### SPECIAL PRECAUTIONS TO PREVENT EXPOSURE

Wear the standard and special protective clothing as indicated below to ensure against possible exposure during all operations associated with handling and application. Wear clean clothes each day and launder before reusing. Place contaminated clothing in a special designated container until laundering. Keep a complete clean change of clothes at the worksite for use if needed. Replace boots and gloves if contaminated.

**STANDARD CLOTHING:** Heavy-duty, long-sleeve, one piece worksuit, cloth cap; underwear including T-type undershirt, rubber or neoprene gloves, socks, heavy-duty workboots, water-proofed.

### SPECIAL PROTECTIVE CLOTHING AND EQUIPMENT:

When washing aircraft, cleaning equipment, in case of spills or accidents, and for other special uses when maximum protection is needed, wear a complete waterproof rubberized or plastic rainsuit with head covering; rubber boots (slip-on, knee length, waterproof); heavy-duty rubber or neoprene gloves, and an approved pesticide respirator such as Willson<sup>®</sup> 1200 face-piece equipped with Willson R-21 cartridges and R-15 filters. Cartridges and filters are to be changed daily, not to exceed 8 hours of use, or if breathing becomes difficult. Clean and protective clothing and equipment after each use.

### PERSONAL PRECAUTIONS

If FUNDAL<sup>®</sup> SP or spray solution gets on clothing, immediately remove contaminated clothing and wash affected parts of body with soap and water. If there is any question as to the extent of contamination, bathe entire body thoroughly. Change to clean clothing.

Wash hands with soap and water before eating, drinking or smoking.

At the end of the work day, bathe entire body with soap and plenty of water.

**SPECIAL EQUIPMENT:** FUNDAL<sup>®</sup> SP must be transferred and mixed using closed-system equipment. A closed-system is defined as appropriate connections, meters, pumps and plumbing designed to eliminate human contact. Do not use open mixing vats or tanks, or open pouring.

All plumbing connections must be sufficiently tight to prevent leakage.

Use hoses constructed of chemically resistant, heavy-duty, reinforced materials. Avoid excessive pressures to minimize the possibility of rupture. If any sign of weakness appears, flush the hose thoroughly with clean water and replace immediately.

Transport and storage vessels and transfer equipment must be equipped with dry-break valves.

Any equipment which has been contaminated with FUNDAL<sup>®</sup> SP must be thoroughly cleaned and flushed with clean water prior to maintenance or use for other purposes. Wear appropriate protective clothing when performing equipment maintenance operations.

Spray equipment must be equipped with low drift nozzles.

**ACCIDENTS:** In the event of a spill or accident, follow all precautions mentioned and clean up immediately. Take special care to avoid contamination of equipment and facilities during clean-up procedures and disposal of wastes.

In the event of a major spill or accident, phone 800-424-9300 for assistance.

## STORAGE AND DISPOSAL

**STORAGE:** Do not store this box under wet conditions. Handle carefully when stored at temperatures of less than 50°F to avoid breakage of soluble bag.

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

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. 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. Dispose of pesticide rinsate by application to an already treated area.

**CONTAINER DISPOSAL:** Completely empty box into application equipment. Then dispose of empty box in a sanitary landfill or by incineration, or, if allowed by State and local authorities by burning. If burned, stay out of smoke.

## GENERAL INFORMATION

FUNDAL<sup>®</sup> SP is a completely water-soluble insecticide/ovicide for control of bollworm and tobacco budworm on cotton. Best results can be expected in fields under a regular scouting program.

## DIRECTIONS FOR USE

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

Apply by air or by ground, using low drift nozzles. Do not use less than 1 gallon spray per acre by air or not less than 10 gallons by ground. 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.

Read the entire Directions for Use before using this product.

**REENTRY STATEMENT:** Reentry into treated areas is prohibited until leaves are completely dry or until 24 hours after application.

Do not enter treated areas without protective clothing.

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.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area adjacent to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral

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warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

**WARNING:** Area treated with FUNDAL<sup>®</sup> SP on (date of application) Do not enter without appropriate protective clothing for 24 hours or until leaves are completely dry. In case of accidental exposure see Statement of Practical Treatment on the label

**USE PRECAUTIONS:** Do not spray shortly before rainfall. Do not allow prepared solutions to stand overnight. Flush spray tank thoroughly with water daily after use. Do not allow animals to graze in areas treated with FUNDAL<sup>®</sup> SP. Do not feed crop residues. Do not apply near persons or dwellings. Do not enter treated fields for at least 24 hours after application.

**NOTE:** To avoid excessive residues, do not apply less than 21 days before harvest. Do not feed foliage from treated cotton plants or gin trash to livestock.

Not for use in California

#### RATE OF APPLICATION

##### FUNDAL<sup>®</sup> SP Alone

**FOR INSECT CONTROL:** Apply on a 3-5 day schedule when moth flights begin and/or when eggs first appear and continue application as long as eggs are present. Apply the lower rate when egg deposition is just starting.

Bollworm eggs 1/2 - 3/4 lb./acre

Tobacco Budworm eggs 1/4 lb./acre

**YIELD ENHANCEMENT:** For a yield enhancement effect above that expected from insect control, apply FUNDAL SP at 1/2 - 3/4 lb./acre 4-6 times at 5-7 day intervals beginning at first square formation.

For ground application spray broadcast or apply in a band. Use band application only when cotton is small enough to be fully covered by the band. Do not go below band width shown in the table below.

ROW SPACING	BAND WIDTH
40"	20"
38"	19"

**MIXING DIRECTIONS:** Thoroughly clean spray equipment before using FUNDAL SP. Prepare no more spray mixture than is needed for the immediate operation. Use a closed-system for introduction of FUNDAL SP into the spray tank. After opening container, tear open foil liner and drop the required number of unopened soluble bags into the mix tank 3/4 full of water with the agitator running. Then add the remainder of the water.

**TANK-MIXES:** If egg hatch occurs because of delayed application of FUNDAL<sup>®</sup> SP or other causes, or if it becomes necessary to begin applications in a field where bollworm and tobacco budworm larvae or other insect pests have reached economic levels, it may be advantageous to apply FUNDAL SP in a tank-mix with other insecticides listed on this label.

Use other insecticides listed on this label at rates recommended on the labels for these products and observe all limitations and precautions which appear on these labels.

At low to moderate bollworm and tobacco budworm infestation levels and in closely scouted and supervised fields, pyrethroid products may be used in the tank mix at reduced rates.

FUNDAL<sup>®</sup> SP has been found to be effective and compatible when tank-mixed with the following products: Ambush<sup>®</sup>, Trademark of ICI Americas, Inc.; Ammo<sup>®</sup>, Trademark of FMC Corp.; Axodrin<sup>®</sup>, Trademark of Shell Chemical Co.; *Bacillus thuringiensis*; Bolictax<sup>®</sup>, Trademark of Mobay Chemical Corp.; Bidrin<sup>®</sup>, Trademark of Shell Chemical Co.; Cymbush<sup>®</sup>, Trademark of ICI Americas, Inc.; Dimethoate; Dimilin<sup>®</sup>, Trademark of Thompson-Hayward Chemical Co.; Flocor<sup>®</sup>, Trademark of Sandoz, Inc.; EPN + Methyl parathion; Guthion<sup>®</sup>, Trademark of Mobay Chemical Corp.; Imidan<sup>®</sup>, Trademark of Stauffer Chemi-

cal Co.; Lorsban<sup>®</sup>, Trademark of Dow Chemical Co.; Methyl parathion, Orthene<sup>®</sup>, Trademark of Chevron Chemical Co.; Pay-Off<sup>®</sup>, Trademark of American Cyanamid Co.; Pounce<sup>®</sup>, Trademark of FMC Corp.; Pydrin<sup>®</sup>, Trademark of Shell Chemical Co.; Supracide<sup>®</sup>, Trademark of Ciba-Geigy Corp.

#### FUNDAL<sup>®</sup> SP TANK-MIX RATES

PEST	TIME OF APPLICATION	RATE FUNDAL <sup>®</sup> SP	OTHER INSECTICIDES
Bollworm Tobacco budworm	Application of soluble bags when moth flights begin or when eggs first appear. Continue application as long as eggs are present.	1/2 - 3/4 lb./acre	Refer to the other insecticide label for recommended rate.
Bollworm Tobacco budworm	Application of soluble bags for yield enhancement.	1/2 - 3/4 lb./acre	Pyrethroid products should be used at reduced rates.

**TANK-MIX DIRECTIONS:** Add 3/4 of the required amount of water to the mix tank. Drop the required number of unopened soluble bags into the mix tank 3/4 full of water with the agitator running. With the agitator running, add the desired amount of the other insecticide. Then add the remainder of water. By-pass agitation will keep the tank-mix emulsified. Always prepare fresh mixtures just prior to use. Do not allow tank-mixes to stand overnight.



## What Happens if an Egg Hatch Occurs?

If egg hatch occurs because of delayed application of FUNDAL SP or other causes — or if it becomes necessary to begin applications in a field where bollworm and tobacco budworm larvae or other insect pests have reached economic levels — it may be advantageous to apply FUNDAL SP in a tank-mix with other insecticides. Through synergistic action, FUNDAL can actually improve the killing power of most insecticides used to control bollworm and tobacco budworm larvae.

Use other insecticides at rates recommended on the labels for these products and observe all limitations and precautions which appear on their labels. At low to moderate bollworm and tobacco budworm infestation levels and in closely scouted and supervised fields the pyrethroid products may be used in the tank-mix at reduced rates.

## How to Tank-Mix FUNDAL' SP

Add  $\frac{3}{4}$  of the required amount of water to the mix-tank. Drop the required number of unopened soluble bags into the mix-tank  $\frac{3}{4}$  full of water with the agitator running. With the agitator running, add the desired amount of other insecticide. Then add the remainder of water. By-pass agitation will keep the tank-mix emulsified. Always prepare fresh mixtures just prior to use. Do not allow tank-mixes to stand overnight.

## With What is FUNDAL' SP Compatible?

FUNDAL SP has been found to be effective and compatible when tank-mixed with the following products: Ambush<sup>®</sup>, Trademark of ICI Americas, Inc.; Ammo<sup>®</sup>, Trademark of FMC; Azodrin<sup>®</sup>, Trademark of Shell Chemical Co.; *Bacillus thuringiensis*; Bolstar<sup>®</sup>, Trademark of Mobay Chemical Corp.; Bidrin<sup>®</sup>, Trademark of Shell Chemical Co.; Cymbush<sup>®</sup>, Trademark of ICI Americas, Inc.; Dimethoate; Dimilin<sup>®</sup>, Trademark of Thompson-Hayward Chemical Co.; Elcar<sup>®</sup>, Trademark of Sandoz, Inc.; EPN + Methyl parathion; Guthion<sup>®</sup>, Trademark of Mobay Chemical Corp.; Imidan<sup>®</sup>, Trademark of Stauffer Chemical Co.; Lorsban<sup>®</sup>, Trademark of Dow Chemical Co.; Methomyl; Methyl parathion; Orthene<sup>®</sup>, Trademark of Chevron Chemical Co.; Pay-Off<sup>®</sup>, Trademark of American Cyanamid Co.; Pounce<sup>®</sup>, Trademark of FMC Corp.; Pydrin<sup>®</sup>, Trademark of Shell Chemical Co.; Supracide<sup>®</sup>, Trademark of Ciba-Geigy Corp. Tests have indicated no compatibility problem between FUNDAL SP (soluble bag) and the products shown above. With other mixtures, especially micro-nutrients, a test should be conducted before use to determine compatibility.

FUNDAL SP is not compatible with boron solutions or Sevin<sup>®</sup>.

A few compatibility problems have been noted in the field with mixtures of FUNDAL SP and some locally formulated products. The incompatibility shows up as "clabbering" (invert emulsion).

In order to minimize invert emulsions, take the following precautions:

1. Use at least one gallon of spray/acre (label directions).
2. Add  $\frac{3}{4}$  of the required water to the mix-tank. Drop the required number of unopened soluble bags into the mix-tank  $\frac{3}{4}$  full of water with the agitator running. With the agitator running, add the desired amount of other insecticide, followed by the remainder of water.

3. Use fresh emulsion concentrates.

If an invert emulsion occurs, one of the following may be helpful:

1. Use tank-mix additive of:
  - a. Xylene — 1-3% of total spray volume. Kerosene has also been used.
  - (or)
  - b. Add 0.3-0.5% of 80/20 non-ionic/anionic surfactant, such as Sponto-D<sup>®</sup>, Unite<sup>®</sup> or Blendex<sup>®</sup>.
2. Agitate spray thoroughly.
3. Add more water with agitation.

## What Effect Does FUNDAL' SP Have on Beneficials?

When used alone, FUNDAL SP has little or no effect on the beneficial insect populations generally found in cotton fields. Predators and parasites, if allowed to survive in cotton fields, can aid in the control of destructive pests.

## How Does FUNDAL' SP Affect the Cotton Plant?

FUNDAL SP is not phytotoxic to cotton. In fact, multiple applications of FUNDAL SP to cotton during the fruiting stage have positive effects on fruiting and yield (see "Yield Enhancement").

## What Effect Does Rainfall Have on FUNDAL' SP?

If rainfall occurs after treatment and before FUNDAL SP has a chance to dry on the plants, retreatment may be necessary.

IMPORTANT: Please remember always to read and follow carefully all label directions when applying any chemical.

CAUTION: This product is a restricted use pesticide.

NOTE: FUNDAL' SP must be transferred and mixed using closed-system equipment.

\*Trademark of Union Carbide Agricultural Products Co., Inc.  
\*Trademark of Waco Chemical Corp., Organics Division  
\*Trademark of Hoechst, Agricultural Chemical Company  
\*Trademark of Helena Chemical Company

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**IMPORTANT: READ BEFORE USE**

By using this product, user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM FAILURE TO USE THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS.

**LIMITATIONS OF LIABILITY:** In no event shall NOR-AM Chemical Company's liability for damages arising out of the use of this product exceed the purchase price of the product used.

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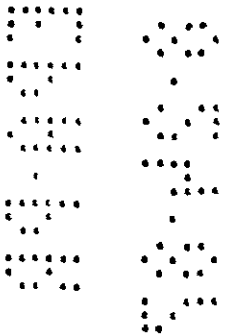
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