

amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

**SPRAYING:** Work to windward. Protect sprayer operators from drift or mist. When low volumes of spray are applied complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service for specific use information in your area.

### RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not graze livestock in treated orchards or groves for 21 days after treatment. Do not treat food crops grown in the greenhouse.

This product is toxic to fish, birds, and other wildlife. Keep away from 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.

### CONTAINER DISPOSAL

**DO NOT RE-USE THE CONTAINER**—Completely empty the contents and bury the unused chemical at least 18 inches deep in an isolated location away from water supplies.

Burn the empty container completely. Exercise extreme caution and stay well away from the smoke.

Do not use container in any connection with feed, food, or drinking water.

### DANGER

Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Do not breathe dust or spray mist. Spray operator should work to windward to stay out of drift or mist.

When loading spray tank or handling the powder at any other time, wear protective clothing, natural rubber gloves and goggles. A mask or respirator recommended by the U.S. Bureau of Mines for protection against GUTHION should be worn when handling the powder.

Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals. Keep all unprotected persons out of the operating area or vicinity where there may be danger of drift. Wash hands, arms, and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

**SYMPTOMS OF POISONING:** A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

**TREATMENT.** In case of poisoning call a physician immediately. Have patient lie down and keep quiet. If swallowed, induce vomiting by giving a tablespoonful of salt in a glass of warm water. Administer milk or water freely and again induce vomiting until vomit fluid is clear. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes.

### TO PHYSICIAN: POISON

**ANTIDOTE**—Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

### WARRANTY AND LIMITATION OF DAMAGES

Chemagro warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale; subject to the risks referred to therein. CHEMAGRO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, and no agent of Chemagro is authorized to do so except in writing, with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or values, etc.

GUTHION is a Reg. TM of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen.

Crop	Pests	Rate	Directions	Crop	Pests	Rate	Directions
	Mexican bean beetle	1 to 1 1/2			Brown scale California red scale Texas citrus mite Yellow scale	1/4	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.
Tobacco	Aphids Grasshoppers Tobacco hornworm Tobacco flea beetle	1 to 1 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Treat for hornworms as soon as egg masses or worms are first found. Repeat as necessary but not within 6 days of harvest. Prime before treating.	Grapes	Grape berry moth Grape cane girdlers Grape mealybug Leafhoppers Mites Red banded leaf roller Thrips	1/2 to 1	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1,000 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.
	Tobacco budworm	1 1/2		Straw berries	Aphids Meadow spittlebug Oblique banded leaf roller Obscure root weevil Omnivorous leaf tier Pea leaf weevil Small black (grass) weevil Strawberry leaf rollers Whitefly	1	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1,000 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.
FRUIT				NUTS			
Apples	Aphids Apple maggot Codling moth European apple sawfly Eye-spotted bud moth Forbes scale Fruit tree leaf roller Green fruit-worm Leafhoppers	1/2	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1,000 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.	Almonds	Peach twig borer	1/2 to 1	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest.
Crab apples	Mealybug Mites Orange tortrix Pear psylla Plum curculio Putnam scale Red-banded leaf roller San Jose scale Stink bug Tarnished plant bug	1/2		Filberts (Pacific North-west Only)	Apple mealybug Filbertworm Filbert aphid Filbert leaf roller	1/2 to 1 1/2	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season, within 21 days of harvest for apricots, nectarines, and peaches, nor within 15 days of harvest for plums and prunes. Apply the 1/2-pound rate for oriental fruit moth and peach twig borer on apricots, nectarines and peaches only before mid season. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For scale control, apply when crawlers are present. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to peach and prune sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments. NOTE: It is suggested that when treating nectarines during bloom period, beekeepers should be warned well in advance to remove hives a safe distance from orchards to be treated.
Pears	Lesser peach tree borer Mites Peach tree borer	1/2 to 1		Pecans	Aphids Fall webworm Hickory shuckworm Leaf miners May beetles Mites Pecan casebearer Southern green stink bug Spittlebugs Twig girdlers Walnut caterpillars	1/2 to 1 1/2	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1,000 gallons of finished spray per acre. Repeat as necessary. Do not apply after husks split. Where more than 1 1/2 pounds of GUTHION 50% Wettable Powder are applied per acre in a single application do not graze livestock in treated groves. Where 1 1/2 pounds or less of GUTHION 50% W.P. are applied per acre, livestock may be grazed in treated groves after a 21 day post-treatment interval.
Quinces	Cherry leaf miner Mineola moth	1/2		Walnuts	Aphids Codling moth European red mite Filbertworm Navel orangeworm	1/2 to 1	Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 1,000 gallons of finished spray per acre. Repeat as necessary. Do not apply after husks split. Do not graze livestock in treated groves for 21 days after treatment.
	Cherries	1/2 to 1		VEGETABLES			
	Apricots	Aphids Cottony peach scale European fruit lecanium scale Forbes scale Lesser peach tree borer Mites Peach tree borer	1/2 to 3/4	Artichokes	Plume moth	3	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.
	Nectarines	Thrips	1/2 to 3/4		Leaf rollers Mites	1/2 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply to snap beans within 7 days of harvest nor to dry beans within 30 days of harvest. Do not exceed 4 applications on dry beans. Do not feed or ensile treated forage.
	Plums	Aphids Eye-spotted bud moth Forbes scale Fruit tree leaf roller Lesser peach tree borer Mites Orange tortrix Peach tree borer	1/2 to 1	Beans (Dry & Snap)	Aphids Bean leaf beetle Green cloverworm Mexican bean beetle Spotted cucumber beetle Striped cucumber beetle Tarnished plant bug Western striped cucumber beetle	1/2 to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 7 days of harvest for Brussels sprouts, 15 days of harvest for broccoli and cauliflower, nor within 21 days of harvest for cabbage.
	Prunes	Peach twig borer Plum curculio Red-banded leaf roller San Jose scale Stink bug Tarnished plant bug Tussock moth	1/2 to 1		Broccoli Brussels Sprouts Cabbage Cauliflower	1 to 1 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 7 days of harvest for Brussels sprouts, 15 days of harvest for broccoli and cauliflower, nor within 21 days of harvest for cabbage.
		American plum borer	1		Cabbage maggot	1/2 to 1	Apply specified dosage in 50 gallons of water. Apply 4 to 6 ounces per plant at or immediately after transplanting.
Black berries	Leafhoppers Leaf rollers	1/2	Apply specified dosage per acre to foliage using approximately 200 gallons of water for good coverage. Repeat as necessary but not within 14 days of harvest.				
Boysen berries	Leaf miners	1/2					
Logan berries	Aphids	3/4 to 1					
Raspberries	Obscure root weevil	1	For control of root weevils and borers prior to harvest apply specified dosage per acre to lower portion of canes and to the soil beneath the plants using approximately 200 gallons of water. Do not apply more than twice per season. Do not make applications within 3 days of harvest at rates up to 2 pounds per acre. Rates above 2 pounds per acre should be applied only before fruit set or after crop is harvested.				
	Raspberry crown (root) borer	2 to 4					
	Obscure root weevil	1					

## DIRECTIONS FOR USE

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

**IMPORTANT** Read these entire Directions and Conditions of Sale before using MESUROL 50% Hopper-Box Treater.

CONDITIONS OF SALE. THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. FAILURE TO FOLLOW THESE DIRECTIONS OR THE OCCURRENCE OF WEATHER CONDITIONS THAT ARE EXTRAORDINARY OR UNUSUAL FOR THE USE AREA MAY RESULT IN UNSATISFACTORY PERFORMANCE OF THE PRODUCT. CHEMAGRO AND THE SELLER OFFER, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE AFOREMENTIONED CONDITIONS WHICH ARE BEYOND THE CONTROL OF CHEMAGRO AND THEREFORE THE RESPONSIBILITY OF THE BUYER.

MESUROL 50% Hopper-Box Treater bird repellent is effective in preventing bird feeding damage to newly planted corn (including field, sweet, and popcorn) in all States east of the Mississippi River only. Blackbirds are repelled from treated fields before they can cause significant loss of seeds or seedlings. Birds feeding on treated seed may become paralyzed, however, the majority recover within a short period of time.

Apply MESUROL 50% Hopper-Box Treater at planting at a rate of 1 pound per 100 pounds of seed corn (9 ounces per bushel). Place the appropriate amount of MESUROL 50% Hopper-Box Treater in the filled seed hopper. Using a long stick or rod, stir the hopper contents to thoroughly mix the bird repellent with the seed. Check equipment frequently to assure proper operation.

Under cool, wet growing conditions, this product may be phytotoxic to corn.

## STORAGE AND DISPOSAL

1. **PROHIBITIONS** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.
2. **PESTICIDE DISPOSAL** Pesticide, or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
3. **CONTAINER DISPOSAL** Dispose of in an incinerator or landfill approved for pesticide containers, or bury in a safe place.
4. **GENERAL** Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.



# MESUROL

## 50% Hopper-Box Treater

### REPELLENT OF BLACKBIRDS IN NEWLY PLANTED CORN FIELDS

#### ACTIVE INGREDIENT:

3,5-Dimethyl-4-(methylthio)phenol methylcarbamate	50%
INERT INGREDIENTS	50%
	<hr/> 100%

EPA Registration Number 3125-309  
EPA Est. 3125-MO-1

U.S. Patent No. 3,313,684  
Canadian Patent No. 761,440

**STOP - READ THE LABEL BEFORE USE**

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

See Side Panel for Statements of Practical Treatment and Other Precautionary Statements

NET CONTENTS                      POUNDS

CHEMAGRO AGRICULTURAL DIVISION  
MOBAY CHEMICAL CORPORATION  
Box 4913, Kansas City, Mo. 64120

**PRECAUTIONARY  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS  
WARNING**

Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get on clothing, natural rubber gloves, and physician immediately. Have patient lie

Do not breathe dust. Wear a mask or protection against organocarbamate equipped with combination organic vapour suitable types of masks or respirators. Mines.

Do not contaminate feed or food. Keep unprotected persons out of the operation. Thoroughly wash with soap and warm water. Contaminated clothing with soap and hot

**SYMPTOMS OF POISONING** A sense of contracted pupils. Stomach pains. Vomiting.

**ADVICE TO PHYSICIAN:**

**ANTIDOTE** - Administer atropine. Repeat as necessary to the point of tolerance.

Compound inhibits cholinesterase, nervous system, the parasympathetic nerves. Do not give morphine. Watch for development in serious cases of poisoning pulmonary edema, the patient should be treated symptomatically.

## STATEMENTS OF PRACTICAL TREATMENT

If swallowed, induce vomiting by giving warm water. Administer milk or water until vomit fluid is clear.

If on skin, remove contaminated clothing with soap and warm water.

If eyes are contaminated, wash with flowing water.

## ENVIRONMENTAL PRECAUTIONS

Treated seed must not be used for feeding other crops used for food or forage. Applications at rates above those shown are prohibited.

This pesticide is toxic to fish and other aquatic life. Keep out of lakes, ponds, streams, and waterways. Do not allow seeds or wastes by burial, away from water. Do not allow seeds to be exposed on soil surface. Apply

MESUROL is a Reg. TM of the Bayer Corporation, Leverkusen, Germany.



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CHEMAGRO AGRICULTURAL DIVISION  
MOBAY CHEMICAL CORPORATION  
Box 4913, Kansas City, Mo. 64120

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Poisonous if swallowed, inhaled, or absorbed through the skin. Rapidly absorbed through the skin. Do not get in eyes or on skin. Wear protective clothing, natural rubber gloves, and goggles. In case of poisoning, call a physician immediately. Have patient lie down and keep quiet.

Do not breathe dust. Wear a mask or respirator similar to those used for protection against organocarbamate insecticides. Respirators should be equipped with combination organic vapor filter cartridges. Information as to suitable types of masks or respirators is available from the U.S. Bureau of Mines.

Do not contaminate feed or food. Keep out of reach of children. Keep all unprotected persons out of the operating area. Wash hands, arms, and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

**SYMPTOMS OF POISONING:** A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

**TO PHYSICIAN:**

**ANTIDOTE:** Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

### STATEMENTS OF PRACTICAL TREATMENT

If swallowed, induce vomiting by giving a tablespoonful of salt in a glass of warm water. Administer milk or water freely and again induce vomiting until vomit fluid is clear.

If on skin, remove contaminated clothing and wash skin immediately with soap and warm water.

If eyes are contaminated, wash with flowing water for at least 15 minutes.

### ENVIRONMENTAL HAZARDS

Treated seed must not be used for feed, food, or oil purposes. Do not use on other crops used for food or forage. Use only according to label directions. Applications at rates above those shown may result in illegal crop residues.

This pesticide is toxic to fish and other wildlife. Birds feeding on treated corn may be killed. Keep out of lakes, ponds and streams. Dispose of excess treated seeds or wastes by burial, away from water supplies. Do not allow treated seeds to be exposed on soil surface. Apply only as specified on the label.

MESUROL is a Reg. TM of the Parent Company of Farbenfabriken Bayer GmbH Leverkusen.

# Vertagreen Food with Sevin Insecticide

## Insecticide

ACTIVE INGREDIENT	By Weight
Carbaryl (1-naphthyl N-methylcarbamate)	1%
INERT INGREDIENTS	99%
TOTAL	100%

\* Sevin is the registered trademark of Union Carbide Corporation for carbaryl insecticide.



**CAUTION:** KEEP OUT OF REACH OF CHILDREN  
ADDITIONAL CAUTIONS. SEE REVERSE SIDE

Controls Lawn Insects: Ants • **CHINCHBUGS** • Cutworms •  
Earwigs • Fall Armyworms • Fleas • Millipedes •  
Mosquitoes • Sod Webworms or Lawn Moths

### 50 Lbs. Net Wt.

FOR THE PINE BLUFF  
MAKING ELEMENTS OF  
AVAILABLE CLASSIFICATION  
Controlled by  
MILBURN PULP & PAPER CORP.  
PINE BLUFF, ARK

AA 55225-B 5-180PE 16x29 1/2 30831  
CODE 12-C

# Vertagreen

Lawn Food with Sevin Insect

CC  
MAY  
Under the  
Fungicide  
as common  
registered  
EPA Reg

# Vertagreen



# Lawn Food Insecticide



USE SIDE

VERTAGREEN

# Vertagreen Lawn Food with Sevin Insecticide

# Lawn Food 10-5-5 with Sevin® Insecticide

### GUARANTEED ANALYSIS

Total Nitrogen (N)	10%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> )	5%
Soluble Potassium (K <sub>2</sub> O)	5%

<b>ACTIVE INGREDIENT</b>	<b>By Weight</b>
Carbaryl (1-naphthyl N-methylcarbamate)	1%

<b>INERT INGREDIENTS</b>	<b>99%</b>
<b>TOTAL</b>	<b>100%</b>

This product contains 1 lb. Sevin per 100 lbs.



Distributed By  
**Agri-Chemicals**  
Division of United States Steel Corporation  
P.O. Box 255      Atlanta, Georgia

USS and Vertagreen are registered trademarks.

### Read Following Carefully Before Application

Use This Product Only For Recommended Purposes And At Recommended Dosage  
This product is designed for control of certain insects on lawns as follows: Ants, chinch-bugs, cutworms, earwigs, fall armyworms, fleas, millipedes, mosquitoes, and sod web-worms or lawn moths.

When to Apply: Apply 25 lbs. per 1000 sq. ft. (0.25 lbs. technical Sevin per 1000 sq. ft.) in early spring or early fall. Repeat application in 6 to 12 weeks during warm months or when reinfestation occurs.

How to Apply: To control surface pests, immediately after application, water just enough to settle product on surface of soil around crown of grass plants. Heavier sprinkling can be resumed after 24 hours.

For soil pests, water lawn heavily immediately after application to soak mixture into soil but do not flood lawn which will wash away the insecticide.

Use a fertilizer spreader. Following settings are approximate for applying contents of this package at suggested rate of 25 lbs. per 1000 sq. ft. Settings are based on an average walking speed. Reduce setting for slower speed; raise setting for higher speed.

### SPREADER SETTING GUIDE

Make	Setting
Vertagreen Rotary (Cyclone)	6
Central (Recessed Wheel)	8 1/4
Scary & Johnson	8 1/4
Scott	10 1/4

### CAUTION

NOTE FOR PHYSICIAN: Carbaryl is a moderate reversible, cholinesterase inhibitor. Abnormalities in total cholinesterase activity may be observed.

NOTE: USS Agri-Chemicals can accept no responsibility for injury to persons or animals or for property damage resulting from the use of this product. For a complete list of directions for use, see the label on the container.

