

3125-193

2-28-1977

1/4

FOR EASY OPENING,



CUT ALONG THIS LINE

© GUTHION 50% WETTABLE POWDER
EPA Reg. No. 3125-193-AA

Since the labeling on the attached bag was printed, the use of GUTHION 50% Wettable Powder on apples, crab apples, pears, and quinces by aerial applications has been accepted for registration. Full text of the accepted labeling follows:

CROP	INSECT	Pounds Guthion 50% WP	REMARKS
Apples	Aphids	2 to 3	AERIAL APPLICATIONS: Apply specified dosage in a minimum of 3 gallons of water per acre for the states and a minimum of 10 gallons of water per acre in other areas. Apply by fixed-wing or helicopter aircraft. Where aphids and mites are a problem aerial applications may not provide satisfactory control. Do not apply more than 5 times at the 2 pound rate nor 3 times at rates above 2 pounds. Do not apply within 7 days of harvest.
Crab apples	Apple maggot		
Pears	Codling moth		
Quinces	European apple sawfly		
	Eye-spotted bud moth		
	Forbes scale		
	Fruit tree leaf roller		
	Green fruitworm		
	Leafhoppers		
	Mealybug		
	Mites		
	Orange tortrix		
	Pear psylla		
	Pum scale		
	Red-Banded leaf roller		
	San Jose scale		
	Stink bug		
	Tarnished plant bug		

BEFORE USE, BE SURE TO READ AND OBSERVE THE OTHER USE AND HANDLING DIRECTIONS AND PRECAUTIONS FOUND ON THE BAG.

Chemagro

ACCEPTED
FEB 28 1977
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under
EPA Reg. No. 3125-193

GUTHION

50% WETTABLE POWDER
CROP INSECTICIDE

FOR EFFECTIVE ECONOMICAL INSECT CONTROL

NET WEIGHT 2.5 POUNDS

Store in a cool dry place.



POISON



DANGER

KEEP OUT OF REACH OF CHILDREN

(See side panel for antidote and danger statements.)

ACTIVE INGREDIENT:

O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate 50%

INERT INGREDIENTS: 50%
100%

EPA Reg. No. 3125-193-AA

This product is highly toxic to bees exposed to direct treatment or residues on crops. Protective information may be obtained from your Cooperative Agricultural Extension Service.

573090

"Chemicals for Agriculture"

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

DIRECTIONS FOR USE

IMPORTANT: Read these entire Directions and Conditions of Sale, including the Warranty and Limitation of Damages provision, before using GUTHION 50% Wettable Powder.

CONDITIONS OF SALE: These Directions for Use reflect the opinion of experts based on tests of effectiveness, toxicity to plants and laboratory animals and of residues on or in food and feed under normal conditions of use. However, because of the wide range of conditions under which this product may be used, even though label directions are followed, it is impossible to eliminate all risks associated with its use because of abnormal conditions beyond the control of the seller. Chemagro and the Seller offer, and the Buyer uses, this product subject to the understanding that the Buyer assumes all such risks.

MIXING: GUTHION 50% Wettable Powder Insecticide mixes easily with water to form a suspension which is readily usable in all conventional ground spray equipment. Mix the required amount of GUTHION 50% Wettable Powder with a small quantity of water. Add this premix through the screen while filling the spray tank or fill the tank to the required level and add the premix. Operate the agitator while mixing.

DOSAGE: Use specified dosage of GUTHION 50% Wettable Powder in the 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 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.

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.

RECOMMENDED APPLICATIONS

CROP	INSECT	Pounds GUTHION 50%	REMARKS	CROP	INSECT	Pounds GUTHION 50%	REMARKS	
FIELD CROPS	Leafhoppers	1/2 to 1	Apply specified dosage per acre using a minimum of 10 gallons of water per acre. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. Do not apply within 14 days of harvest at the rate of 1/2 to 1 pound per acre or within 18 days at the rate of 1 pound per acre. Do not apply rates above 1 pound per acre within 21 days of harvest. Do not apply more than once per cutting at any rate.	FRUIT (cont.)			Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Repeat as necessary but not more than 4 times per season nor within 3 days of harvest. (I multiple late season applications of GUTHION dust formulations are to be made for blueberry maggot control, then do not make more than two GUTHION spray applications per season with the last spray no later than June 15.	
	Mites	1/2 to 1						
Alfalfa Clover	Alfalfa weevil	1/2 to 1 1/2		Blueberries (East-ern and North Central States only)	Blueberry maggot	1 to 1 1/2		
	Egyptian alfalfa weevil	1/2 to 1 1/2			Fruitworms			
Barley Oats Rye Wheat	Alfalfa plant bug	1 to 1 1/2		Cranberries	Locanum scale			
	Flea hopper				Plum curculio			
Soybeans	Grasshoppers			Cranberries	Sparganothis sulfureana	1 to 2	Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Repeat as necessary. Do not apply within 21 days of harvest.	
	Lygus bugs				Tipworm	2		
Tobacco	Spittlebug			Citrus Fruits	Aphids	1/2 to 1	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 2000 gallons of finished spray per acre. A single application per year may be applied up to within 7 days of picking. Where 2 applications are required, the second spray should not be applied within 28 days of harvest. Do not apply more than twice per fruit year. Do not pick fruit or do other work involving contact with the tree, such as pruning, within 7 days of treatment.	
	Mexican bean beetle	1 to 1 1/2			Black scale			
Tobacco	Aphids	1 to 1 1/2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than once per season. Do not harvest for food, feed, forage or graze within 30 days of treatment.		Brown soft scale			
	Grasshoppers				Chaff scale			
Apples Crab apples Pears Quinces	Tobacco hornworm	1 1/2		Grapes	Citricola scale			
	Tobacco flea beetle	1 1/2			Citrus mealybug			
Apples	Tobacco budworm	1 1/2			Citrus rust			
	Aphids	1 to 1 1/2			Citrus thrips			
Cherries	Grasshoppers			Strawberries	Cottony-cush-ion scale			
	Leafhoppers				European brown snail			
Apricots Nectarines Peaches	Leaf miners			NUTS	California red scale	1/2		
	Leaf rollers				Texas citrus mite			
Plums Prunes	Sunk bugs			Almonds	Yellow scale			
	Velvet bean caterpillar				Grape berry moth	1/2 to 1		
Blackberries Boysenberries Loganberries Raspberries	Mexican bean beetle	1 to 1 1/2			Grape cane girdlers			
	Obscure root weevil	1			Grape mealybug			
Blackberries Boysenberries Loganberries Raspberries	Raspberry crown (root) borer	2 to 4		Fruit (cont.)	Mites			
	Obscure root weevil	1			Red-banded leaf roller			
Blackberries Boysenberries Loganberries Raspberries	Obscure root weevil	1			Thrips			
	Obscure root weevil	1		Strawberries	Aphids	1 to 1 1/2		
	Obscure root weevil	1			Meadow spittlebug			
Blackberries Boysenberries Loganberries Raspberries	Obscure root weevil	1			Oblique-banded leaf roller			
	Obscure root weevil	1			Obscure root weevil			
Blackberries Boysenberries Loganberries Raspberries	Obscure root weevil	1			Omnivorous leaf tier			
	Obscure root weevil	1			Pea leaf weevil			
Blackberries Boysenberries Loganberries Raspberries	Obscure root weevil	1			Small black (grass) weevil			
	Obscure root weevil	1			Strawberry leaf rollers			
Blackberries Boysenberries Loganberries Raspberries	Obscure root weevil	1			Whitefly			
	Obscure root weevil	1		NUTS				
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RECOMMENDED APPLICATIONS

CROPS	INSECT	Pounds GUTHION 50%	REMARKS
VEGETABLES (continued)			
Broccoli Brussels Sprouts Cabbage Cauliflower	Cabbage maggot (Direct seeded fields in California only)	1½	Apply specified dosage per acre in sufficient water for uniform distribution. Mix in upper 2 inches of soil prior to seeding or spray in the seed row at planting time. Usually 2 to 3 additional sprays are necessary during the growing season, depending on time of year and maggot population. Do not apply within 21 days of harvest.
	Cabbage maggot (Transplant fields in California only)	1½	Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in rows when damage first appears. Additional applications may be necessary. Do not apply within 21 days of harvest.
Celery	Aphids Leaf miners Leafhoppers Spittlebug Tarnished plant bug	1	Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 200 gallons of finished spray per acre. Repeat as necessary but not within 14 days of harvest.
Blackeyed peas (Southern peas, Crowder peas)	Corn earworm Cowpea curculio	1½ to 2	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 4 times per season nor within 7 days of harvest. Do not use vines for feed or forage nor pasture treated areas.
	Leaf miners Stink bugs	¾ to 1	
Cucumbers	Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1	Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 3 times per season nor within 1 day of harvest.
Eggplant	Leaf miners	¾ to 1	Apply specified dosage per acre in sufficient water to give complete coverage. Repeat as necessary. Do not apply after fruit set.
	European corn borer Flea beetles	1	
Onions (Green & Dry)	Thrips	1 to 1½	Apply specified dosage per acre in sufficient water to give complete coverage. Do not apply more than 3 times per season nor within 28 days of harvest of dry onions or 7 days of harvest of green onions.
Peppers	Leaf miners	¾ to 1	Apply specified dosage per acre in sufficient water to give complete coverage. A maximum of 4 treatments may be made up to within 3 days of harvest. Where more than 4 applications are required, do not apply last spray within 14 days of harvest.
	European corn borer Flea beetles	1	
Potatoes	Colorado potato beetle	¾	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 7 days of harvest.
	Banded cucumber beetle Leaf miners	¾ to 1	
	European corn borer Flea beetle Leafhoppers Spittlebugs Tarnished plant bug	1 to 1½	
	Tuberworm	1½ to 1¾	
Spinach	Aphids Leaf miners Mites	¾ to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 14 days of harvest.
	Colorado potato beetle	¾	
Tomatoes	Banded cucumber beetle Drosophila Green stink bug Leaf miners Whitefly	¾ to 1	Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. The high rates should be used where heavy infestations of late instar lepidopterous larvae (large worms) and pinworms are present. Rates of 1½ pounds per acre or less may be applied up to day of harvest. Rates above 1½ pounds per acre require an interval of 14 days between application and harvest.
	Aphids European corn borer Flea beetles Grasshoppers Leafhoppers Thrips	1 to 1½	
	Tuberworm	1½ to 1¾	
	Corn earworm Fruitworm Hornworm Pinworm Yellow-striped armyworm	1½ to 3	
MELONS	Leafhoppers Leaf miners	¾ to 1	Apply specified dosage per acre in sufficient water to give complete coverage. Repeat as necessary up to the day of harvest but not more than 4 times per season.
Honeydew Melons Muskmelon (Cantaloupe) Watermelons Other melons	Rindworms Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1	
ORNA- MENTALS	Aphids Cerococcus scale Euonymus scale Juniper scale Lace bugs Leafhoppers Mites Olive scale Oystershell scale Pulvinaria scale Thrips	¾ to 1	Apply specified dosage per 100 gallons of water (2 level teaspoonfuls per gallon). Spray all foliage surfaces including the underside of leaves for complete coverage. For control of black pine leaf, brown soft, European elm, and Putnam scales, use 4 level teaspoonfuls per gallon. Repeat as necessary.
	Brown soft scale Putnam scale	2	
Ornamentals, Nursery Plants, Forest & Shade Trees	Black pine leaf scale European elm scale	1½ to 2	Apply specified dosage per 100 gallons of water. Time applications to coincide with moth flight when cones are open for pollination. Thorough coverage of cones is necessary for maximum control. Repeat as necessary.
	Cone midge Cone moth	4 to 8	
	European pine shoot moth Nantucket pine tip moth	¾ to 1½	
Do not allow children or pets on treated area until material has been washed into soil and treated area is dry.			
Slash pine	Conseworm Seedworm	3	Apply specified dosage per 100 gallons of water. Thorough coverage of cones is necessary for maximum control. Repeat as necessary.

*This GUTHION dosage is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of GUTHION in the spray mixture in order to apply amount of GUTHION per acre equivalent to a full coverage spray.