

JUL - 6 1994

John S. Thornton
Miles Inc.
P.O. Box 4913
8400 Hawthorn Road
Kansas City, MO 64120-0013

Dear Mr. Thornton:

Subject: Deleted uses
Guthion 35% Wettable Powder
EPA Registration No. 3125-378
Amendment application of November 5, 1993

The amendment referred to above, submitted in connection with registration under Federal Insecticide, Fungicide and Rodenticide Act, is acceptable provided that you:

Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

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

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide Rodenticide Branch
Registration Division (7505C)

Enclosure

GUTHION 35% Wettable Powder

378-8000 YLD

U.S. LABEL

Base Pre Reg. (8000)

Reason to Issue: To add restriction on alfalfa;
to delete use on artichokes, eggplant, and peppers;
and to delete trunk spray applications on plums and prunes.

Date of Draft: 10/25/93(Pre-Reg)(C)

GUTHION

35% WETTABLE POWDER

CROP INSECTICIDE

FOR EFFECTIVE ECONOMICAL INSECT CONTROL

ACTIVE INGREDIENT:

<i>O,O</i> -Dimethyl S-(4-oxo-1,2,3 benzotriazin 3(4 <i>H</i>)) ylmethyl phosphorodithioate	35%
INERT INGREDIENTS:	65%
	100%

Store in a Cool Dry Place. Protect From Heat. Keep Away From Open Flame. Do Not Heat.

EPA Reg. No. 3125-378

Net Weight: ___ Pounds

STOP - READ THE LABEL BEFORE USE.

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO  POISON

(See Rear Panel for Statements of Practical Treatment and Additional Precautionary Statements)

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

1994 - 6 1994
EPA Reg. No. 3125-378

378-8000 YLD

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS



DANGER PELIGRO

POISON

Fatal if swallowed. Harmful if inhaled or absorbed through the skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes, or clothing.

Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals

Personal Protective Equipment:

Handlers who may be exposed to the dilute through application or other tasks must wear:

- Chemical-resistant protective suit
- Water-proof gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:

- Chemical-resistant protective suit
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear
- For exposures in enclosed areas: a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC 14G)
- For exposures outdoors: dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC 21C)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

- Human flaggers must be in enclosed cabs.
- When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.
- The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

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

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STATEMENTS OF PRACTICAL TREATMENT

Organophosphate

In case of poisoning, call a physician immediately. Have patient lie down and keep quiet. If **swallowed**, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. 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. If **inhaled**, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

TO PHYSICIAN: 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.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your Cooperative Agricultural Extension Service.

ROTATIONAL CROPS

Do not plant root crops other than those with registered azinphos methyl uses in azinphos methyl treated soil sooner than 6 months after the last application. Do not

plant any other crop other than those with registered azinphos methyl uses in treated soil sooner than 30 days after last application.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

The REI is 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with any surface that has been treated, such as plants, soil, or water, is:

- Chemical resistant protective suit
- Waterproof gloves
- Chemical resistant footwear plus socks
- Chemical resistant headgear for overhead exposure

IMPORTANT: Read these entire Directions and Conditions of Sale before using GUTHION 35% Wettable Powder.

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. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

MIXING: GUTHION 35% 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 35% 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 35% Wettable Powder in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

COMPATIBILITY GUTHION 35% Wettable Powder is physically compatible with many registered pesticides and liquid fertilizers. When considering mixing GUTHION 35% Wettable Powder with other pesticides or with liquid fertilizer, first contact your supplier. For further information, contact your local Miles representative. If your supplier and Miles representative have no experience with the combination you are considering, you should conduct tests to determine physical compatibility.

To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides. Conduct another compatibility test at concentrations which will be present in the irrigation lines. If there is any separation which cannot be remixed readily, Miles recommends that the combination not be used.

Combinations should be kept agitated and should be applied immediately. Do not allow combinations to sit for prolonged periods in the chemical supply tank or irrigation lines.

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.

CHEMIGATION

GUTHION 35% Wettable Powder may be applied through recommended types of irrigation systems to many crops. The REMARKS section for each crop list the types of applications allowed. If application through irrigation systems is not listed in the REMARKS section for a crop, GUTHION 35% Wettable Powder may not be applied to that crop through irrigation systems.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

Types of Irrigation Systems: Apply GUTHION 35% Wettable Powder only through: sprinkler, including center pivot, lateral move, side roll, overhead solid set, or low pressure sprinkler irrigation systems. Do not apply GUTHION 35% Wettable Powder through any other types of irrigation systems.

GENERAL DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS

Uniform Water Distribution and System Calibration:

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

The system must be calibrated to uniformly apply the rates specified for chemigation application for specific crops. If you have questions about calibration, you should contact State Extension Service specialist, equipment manufacturers or other experts.

Chemigation Monitoring: A person knowledgeable of the chemigation system and responsible for its operations, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Drift: Do not apply when wind speed favors drift beyond the area intended for treatment.

Required System Safety Devices: The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point when pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Using Water from Public Water Systems: Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly services an average of at least 25 individuals daily at least 60 days out of the year.

DO NOT APPLY GUTHION 35% WETTABLE POWDER THROUGH ANY IRRIGATION SYSTEM SUPPLIED BY A PUBLIC WATER SYSTEM UNLESS the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure

decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Posting Requirements: This sign is in addition to any sign posted to comply with the Worker Protection Standard. Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive areas. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Posting required for chemigation does not replace other posting and reentry interval requirements for farm worker safety.

Compatibility: When mixing with other chemicals refer to Compatibility section elsewhere on this label.

Agitation: For application of GUTHION 35% Wettable Powder, a chemical supply tank is necessary for premixing. For application of GUTHION 35% Wettable Powder alone or in combination with liquid fertilizer or other chemicals, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

BEST AVAILABLE PICTURE

Chemical Supply Tank Dilution: You must determine the required amounts of GUTHION 35% Wettable Powder to mix in the tank.

The amount of GUTHION 35% Wettable Powder needed equals the number of pounds of GUTHION 35% Wettable Powder to be applied per acre multiplied by the number of acres to be chemigated.

The amount of solution needed equals the gallons of solution delivered per hour by the injection pump multiplied by the number of hours chemigation will take place.

For example, if you want to apply 2 pounds of GUTHION 35% Wettable Powder per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need: 2 pounds GUTHION 35% Wettable Powder per acre X 130 acres = 260 pounds of GUTHION 35% Wettable Powder. And, you need: 15 gallons per hour X 20 hours = 300 gallons of suspension = 300 gallons of water.

Cleaning the Chemical Injection System: In order to accurately apply pesticides, the chemical injection system must be kept clean; free of chemical or fertilizer residues and sediments. Refer to your owners manual or ask your

equipment supplier for cleaning procedure for your injection system.

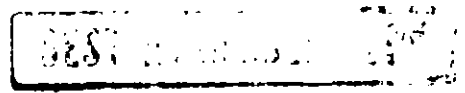
Flushing the Irrigation System: At the end of the application period, allow time for all lines to flush the pesticide through all nozzles or emitters before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

Equipment Area Contamination: It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas.

Center-Pivot and Automatic Move Linear Systems: Inject the specified dosage per acre continuously for one complete revolution or move of the system. **DO NOT USE END GUNS.** For a foliar application, the system should be run at maximum speed.

Solid Set and Manually Controlled Linear Systems: For foliar application, injection should be during the last 30 to 60 minutes of regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation. **DO NOT USE END GUNS.**

RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION 35% WP	REMARKS
Alfalfa Birdsfoot trefoil (East of the Mississippi River Only)	Leafhoppers	1 1/16 to 1 7/16	Apply specified dosage per acre by air or ground equipment. Use at least 10 gallons of water per acre with ground equipment and at least 1 gallon of water per acre for aerial application. 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. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. Only one application per cutting may be made regardless of rate, formulation or method of application used. Not for use on alfalfa grown for seed. Do not apply within 14 days of harvest at the rates of 1 1/16 to 1 7/16 pounds per acre or within 16 days of harvest at the rate of 1 7/16 pound per acre.
	Alfalfa weevil Egyptian alfalfa weevil	1-1/16 to 1-7/16	
	Alfalfa plant bug Flea hopper Grasshoppers Lygus bugs Spittlebugs	1-7/16	
Rye	Cereal leaf beetle	1 to 1-3/8	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.



RECOMMENDED APPLICATIONS

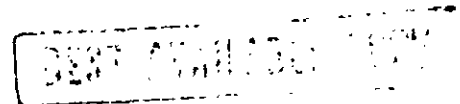
FRUIT

NOTE: It is suggested that when treating fruit during the bloom period, bee keepers should be warned well in advance to remove hives a safe distance from orchards to be treated.

CROP	INSECT	LB GUTHION 35% WP	REMARKS
Apples Crab apples Pears	Aphids* Apple maggot Codling moth European apple sawfly Eye spotted bud moth. Forbes scale Fruittree leaf roller Green fruitworm* Leafhoppers* Mealybug* Orange tortrix Peach midge Plum curculio Putnam scale Red-banded leaf roller San Jose' scale* Stink bug Tarnished plant bug*	2-13/16 to 4-1/4 [11/16 to 1-1/16 lb per 100 gal]	Apply specified dosage per acre by air or ground equipment in sufficient water for good coverage. Up to 17-1/8 pounds GUTHION 35% WP may be applied per crop season. Allow at least 7 days between applications and 7 days between last application and harvest. GUTHION 35% WP is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations.
Cherries	Eye spotted bud moth Forbes scale Fruit flies Fruittree leaf roller Lesser peach tree borer Plum curculio San Jose' scale* Cherry leaf miner Mineola moth	2-1/8 [11/16 lb per 100 gal]	Apply specified dosage per acre as a full coverage spray. Up to 8-1/2 pounds of GUTHION 35% WP may be applied per acre per crop season. Allow at least 14 days between applications and 15 days between last application and harvest. California: Apply post-harvest only.
Nectarines Peaches (Eastern U.S.)	Aphids* Cottony peach scale European fruit lecanium scale Forbes scale Lesser peach tree borer Oriental fruit moth Peach twig borer Peach tree borer <i>Platynota flavidana</i> leaf roller Plum curculio Redbanded leaf roller San Jose scale* Stink bug Thrips Tarnished plant bug Terrapin scale Walnut scale White peach scale	2 1/2 to 3 3/16 [11/16 to 7/8 lb per 100 gal]	Apply specified dosage per acre as a full coverage spray. Allow at least 14 days between applications. A total of 9-5/8 pounds per acre per crop season may be applied to nectarines. A total of 12-13/16 pounds per acre per crop season may be applied to peaches. Allow at least 21 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. For control of scale, apply when crawlers are present. GUTHION 35% WP is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations.

RECOMMENDED APPLICATIONS

CROP	INSECT	LB GUTHION 35% WP	REMARKS
FRUIT (Continued) Nectarines Peaches (West of the Rocky Mountains)	Lesser peach tree borer Oriental fruit moth Peach twig borer Peach tree borer <i>Platynota flavidana</i> leaf roller Plum curculio Redbanded leaf roller Stink bug Thrips Tarnished plant bug	4-1/4 to 5-11/16	Apply specified dosage per acre. Allow at least 14 days between applications. A total of 9-5/8 pounds per acre per crop season may be applied to nectarines. A total of 12-13/16 pounds per acre per crop season may be applied to peaches. Allow at least 21 days between last application and harvest. For control of peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight.
Plum Prunes (Eastern U.S.)	Aphids* Codling moth Eye-spotted bud moth Forbes scale Fruittree leaf roller Lesser peach tree borer Orange tortrix Peach tree borer Peach twig borer Plum curculio Redbanded leaf roller San Jose scale* Stink bug Tarnished plant bug* Tussock moth American plum borer	2-1/2 to 3 9/16 [1 1/16 to 7/3 lb per 100 gal]	Apply specified dosage per acre as a full coverage spray. A total of 9-5/8 pounds per acre per crop season may be applied to plums and prunes. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest. For control of scale, apply when crawlers are present. GUTHION 35% WP is compatible with dormant and summer oils which may be added to prune sprays in accordance with local recommendations.
Plums Prunes (West of the Rocky Mountains)	Codling moth Eye-spotted bud moth Fruittree leaf roller Lesser peach tree borer Orange tortrix Peach tree borer Peach twig borer Plum curculio Redbanded leaf roller Stink bug Tarnished plant bug* Tussock moth American plum borer	2 13/16 to 5-11/16 4 1/4 to 5-11/16	Apply specified dosage per acre as a full coverage spray. A total of 9-5/8 pounds per acre per crop season may be applied to plums and prunes. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest.



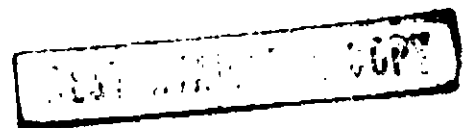
RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION 35% WP	REMARKS
FRUIT (Continued) Blackberries Boysenberries Loganberries Raspberries	Leafhoppers Leaf rollers	5/8	Apply specified dosage per acre to foliage using approximately 200 gallons of water for good coverage. Do not apply more than twice per season, nor within 14 days of harvest.
	Leaf miners	7/8	
	Aphids*	7/8 to 1-3/8	
	Obscure root weevil	1-3/8	
	Obscure root weevil	1-3/8	For control of root weevil 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.
Blueberries (Eastern and North Central States only)	Blueberry maggot Fruitworms Lecanium scale Plum curculio	1-7/16 to 2-1/8	Apply specified dosage per acre with aerial or ground equipment using sufficient water for good coverage. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 10 days between applications and at least 7 days between last application and harvest.
Cranberries	Cranberry fruitworm <i>Sparganothis sulfireana</i> Tipworm	1-7/16 to 2-13/16	Apply specified dosage per acre by air using sufficient water for good coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications and at least 21 days between last application and harvest.
	Fireworms	2-13/16	

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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION 35% WP	REMARKS
FRUIT (Continued) Citrus Fruits	Aphids* Black scale Brown soft scale Chaff scale Citricola scale Citrus mealybug Citrus root weevil complex Citrus thrips Cottony cushion scale European brown snail Florida red scale Fruittree leaf roller Fuller rose beetle Glover scale Orange tortrix Purple scale Snow scale Western tussock moth Whiteflies	3-1/2 to 5-11/16	Apply specified dosage per acre as a full coverage spray. A single application per year may be applied up to within 7 days of harvest. Where 2 applications are required, allow at least 28 days between the second application and harvest. A total of 2 applications may be applied per fruit year regardless of rate or formulation used. Do not pick fruit or do other work involving contact with the tree (such as pruning) within 7 days after treatment. The citrus root weevil complex includes sugarcane rootstalk borer (apopka weevil), fuller rose beetle, little leaf notcher, and two species of blue green citrus root weevil.
	California red scale Yellow scale	5-11/16	
Grapes	Grape berry moth Grape can girdlers Grape mealybug Leafhoppers* Redbanded leaf roller Thrips Grape leaf skeletonizer	2-1/8 to 2-13/16	Apply specified dosage per acre as a full coverage spray A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications. Minimum dosage specified may be applied up to harvest. With higher rates allow at least 10 days between last application and harvest.
Strawberries	Aphids* Meadow spittlebug Oblique-banded leaf roller Obscure root weevil Omnivorous leaf tier Pea leaf weevil Small black (grass) weevil Strawberry leaf roller Whitefly	1-7/16	Apply specified dosage per acre as a full coverage spray using sufficient water for good coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 4 applications may be made per crop season regardless of rate or formulation used. Allow at least 5 days between applications and at least 5 days between last application and harvest.

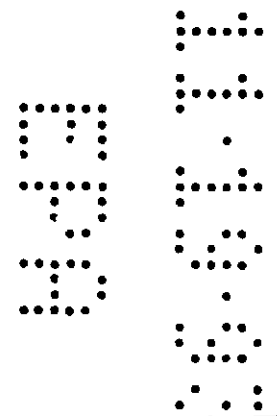
* In some areas, these species may have developed resistance to organophosphate insecticides. GUTHION insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.



RECOMMENDED APPLICATIONS

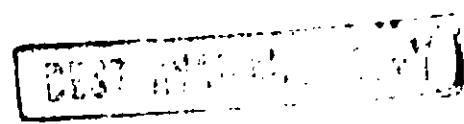
CROP	INSECT	LB GUTHION 35% WP	REMARKS
NUTS Almonds	Peach twig borer Navel orangeworm	4-1/4 to 5-11/16	Apply specified dosage per acre. A total of 2 applications may be made per crop season regardless of rate or formulation used. Allow at least 30 days between applications and at least 50 days between last application and harvest. Do not apply after husks split.
Filberts (Pacific Northwest only)	Apple mealybug Filbert worm Filbert aphid Filbert leaf roller	4-1/4 to 5-11/16	Apply specified dosage per acre as a full coverage spray. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 14 days between applications and at least 30 days between last application and harvest. Do not graze livestock in treated groves for 21 days after treatment.
Pecans	Aphids* Fall webworm Hickory shuckworm Leaf miners May beetles Pecan casebearer Southern green stink bug Spittlebugs Twig girdlers Walnut caterpillars	4-1/4 to 5-11/16	Apply specified dosage per acre as a full coverage spray. A total of 3 applications may be made per crop season regardless of rate or formulation used. Allow at least 7 days between applications. Do not apply after shuck split. Livestock may be grazed in treated groves after a 21-day post-treatment interval.

* In some areas, these species may have developed resistance to organophosphate insecticides. GUTHION insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.



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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION 35% WP	REMARKS
NUTS (Continued) Walnuts	Colding moth Filbertworm Navel orangeworm Walnut husk fly Red-humped caterpillar	4 1/4 to 5-11/16	Apply specified dosage per acre as a full coverage spray by air or ground. A total of 3 applications may be made per crop season regardless of dosage or formulation used. Allow at least 14 days between applications except in the case of split application described below. Allow at least 21 days between last application and harvest. Do not graze livestock in treated groves for 21 days after treatment.
		2-14/16 + 2-13/16	Split Application: On large trees where coverage is difficult to obtain, an aerial application followed by a ground application may be made. In order to achieve control at this rate, the two applications must be made within 10 days. Allow 21 days from the last application until harvest.
VEGETABLES Broccoli Brussels sprouts Cabbage (Includes tight-heading varieties of Chinese cabbage) Cauliflower	Aphids* Cabbage looper Diamondback moth Imported cabbageworm	1-3/8 to 2-1/8	Apply specified dosage per acre in sufficient water for complete coverage. 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. Do not exceed more than 3 applications per season.
	Cabbage maggot	1/4 to 1/2	Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant at or immediately after transplanting.
	Cabbage maggot (Direct seeded fields in California only)	2 1/8	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 additional sprays are necessary during the growing season, depending on time of year and maggot populations. Do not apply within 21 days of harvest. Do not exceed more than 3 applications per season.
	Cabbage maggot Transplant fields in California (only)	2-1/8	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. Do not exceed more than 3 applications per season.

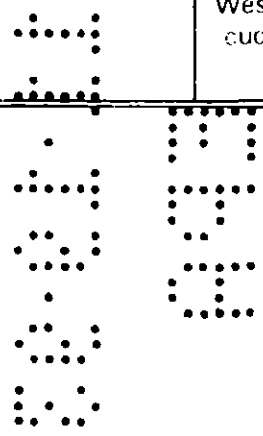


GUTHION 35% Wettable Powder Insecticide

RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION 35% WP	REMARKS
VEGETABLES (Continued) Celery	Aphids* Leaf miners Leafhoppers Spittlebugs Tarnished plant bug	1-3/8	Apply specified dosage in 100 gallons of water as a full coverage spray** using not more than 200 gallons of finished spray per acre. Do not apply within 14 days of harvest. Do not exceed more than 3 applications per season.
Cucumbers	Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1-7/16	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and at least 1 day between last application and harvest.
Onions (Green and Dry)	Thrips	1-7/16 to 2-1/8	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications for dry bulb onions. Allow at least 10 days between applications for green onions. For dry onions, allow at least 28 days between last application and harvest. For green onions, allow at least 14 days between last application and harvest.
Potatoes	Colorado potato beetle	1-1/16	Apply specified dosage per acre in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 7 days between applications and 7 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or Mite Sales Representative for details.
	Banded cucumber beetle Leaf miners	1-1/16 to 1-7/16	
	European corn borer Flea beetle Leafhoppers Spittlebugs Tarnished plant bug	1-7/16 to 2-1/8	
	Tuberworm	1-9/16 to 2-1/8	

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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION 35% WP	REMARKS
Tomatoes	Colorado potato beetle	1-1/16	Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 4 applications may be made per crop season regardless of rate, formulation or method of application used. The high rates should be used where heavy infestations of late instar lepidopterous larvae (large worms) and pinworms are present. Allow at least 7 days between applications. Rates of 2-1/8 pounds per acre or less may be applied up to day of harvest. Rates above 2-1/8 pounds require an interval of 14 days between last application and harvest. NOTE: Resistance of Colorado potato beetle has occurred in some areas. Consult your local Extension Service or MILES Sales Representative for details.
	Banded cucumber beetle <i>Drosophila</i> Green stink bug Leaf miners Whitefly	1-1/16 to 1-7/16	
	Aphids* European corn borer Flea beetles Grasshoppers Leafhoppers Thrips	1-7/16 to 2-1/8	
	Tuberworm	1-9/16 to 2-1/8	
	Fruitworm Hornworm Pinworm Yellow-striped armyworm	2-1/8 to 4-1/4	
*In some areas, these species may have developed resistance to organophosphate insecticides. GUTHION insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.			
MELONS Honeydew Melons Muskmelon (Cantaloupe) Watermelons Other Melons	Leafhoppers Leaf miners	1-1/16 to 1-7/15	Apply specified dosage per acre in sufficient water to give complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. A total of 3 applications may be made per crop season regardless of rate, formulation or method of application used. Allow at least 5 days between applications and at least 7 days between last application and harvest
	Rindworms Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle	1-7/16	



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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION 35% WP	REMARKS
ORNAMENTALS Southern Pine Seed Orchards	Coneworm Seedworm	See Remarks	Use 3.25 pounds per 100 gallons of water (0.2% dilution) as a full coverage spray**. Use 1.6 pounds per 10 gallons of water (1% dilution) for low volume sprayers. Apply first application within 30 days following conelet closure, followed by 3 to 5 applications (at least 30 days apart). Apply approximately 5 to 10 gallons of the 0.2% dilution with high volume sprayers or approximately 1 to 2 gallons of the 1% dilution with low volume sprayers per tree. Thorough coverage of cones is necessary for maximum control. Apply no more than 6 applications per season.
Ornamentals Nursery Stock	Aphids <i>Cerococcus</i> scale Euonymus scale Juniper scale Lace bugs Leafhoppers Mites Olive scale Oystershell scale <i>Pulvinaria</i> scale Thrips	1 to 1-3/8	Apply specified dosage per 100 gallons of water (1-1/3 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 the higher rate. Repeat as necessary.
	Brown soft scale Putnam scale	2-3/4	
	European elm scale Black pine leaf scale	2-1/8 to 2-3/4	
	Cone midge Cone moth	5-1/2 to 11	Apply specified dosage per 100 gallons of water. Time applications to coincide with moth flight when cones are open for pollination. Thorough coverage is necessary for maximum control. Repeat as necessary.
	European pine shoot moth Nantucket pine tip moth	1 to 2-1/8	Apply specified dosage per acre in sufficient water for good coverage. Time applications to coincide with moth flights.
	Injury to hawthorn or American linden may occur under some conditions.		
Christmas trees	Scale spp. Sawfly spp. European pine shoot moth Eastern pine shoot borer Nantucket pine tip moth	1 to 2-1/8	Apply specified dosage per acre by air or ground equipment in sufficient water to give complete coverage but not less than 1 gallon per acre. Time applications to coincide with susceptible pest development.

DIRECTIONS FOR USE (Continued)

*In some areas, these species may have developed resistance to organophosphate insecticides. GUTHION insecticide used alone may not provide satisfactory control in those areas. Consult your local agricultural advisor or cooperative extension service for recommendations.

** This concentration is calculated for conventional hydraulic-type sprayers. When lower volumes of spray are applied per acre with concentrate sprayers, increase the concentration of GUTHION 35% WP in the spray mixture in order to apply amount of GUTHION 35% WP per acre equivalent to a full coverage spray. In Southern Pine Seed orchards where conditions dictate an air application, apply dosage per acre equivalent to a full coverage ground spray in not less than one gallon of water per acre.

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.

STORAGE AND DISPOSAL

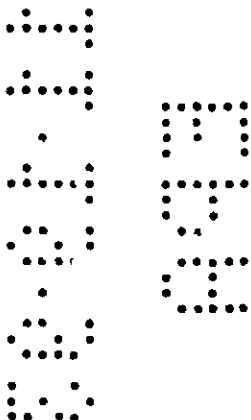
Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal.

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Do not use container in connection with food, feed, or drinking water. Completely empty carton into application equipment. Then dispose of empty carton in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.



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