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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JAN 1 4 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

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Karen S. Cain MILES INC. AGRICULTURE DIVISION 8400 Hawthorn Rd, Box 4913 Kansas City, MO 64120

Subject: Label Amendment Submission of 08/17/93 in Response to PR Notice 93-7 EPA Reg. No. 3125-123 GUTHION 2S

IMPORTANT NOTICE: This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

SERIOUS ERROR(S) ON SUBMITTED LABELING:

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING. Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.



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Each notification must include the following information:

- 1. Registrant's name and address.
- 2. EPA Registration number of the product for which the labeling was submitted.
- 3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

- 1. Quantity of the product that has been sold or distributed.
- 2. EPA Producing Establishment number.
- 3. Location of the product, if known.
- 4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director Compliance Division, (7203) Worker Protection Notification Office of Compliance Monitoring U.S. Environmental Protection Agency 401 M Street SW Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

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IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the WPS labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have neither been reviewed nor accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Submit the required notification. Then by the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

 BEFORE selling or distributing any product bearing the final printed labeling as amended

AND

■ WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Decument Processing Desk (FIN-LABEL) Office of Pesticide Programs (7505C) U.S. Environmental Protection Agency 401 M Street, SW Washington, D.C. 20460-0001 Page 4

Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL) Office of Pesticide Programs Room 266A, Crystal Mall 2 1921 Jefferson Davis Highway Arlington, VA 22202

Sincerely, Jim Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

U.S. LABEL

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Base Pre-Reg. (7940)

<u>Reason to Issue</u>: To revise in accordance with Worker Protection Standard, PR Notice 93-7. Date of Draft: 07/30/93(Pre-Reg)(C)

RESTRICTED USE PESTICIDE

Due to Acute Toxicity

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 Applicator's certification.

GUTHION 2S Emulsifiable Insecticide

FOR EFFECTIVE ECONOMICAL INSECT CONTROL

ACTIVE INGREDIENT:

| 0,0-Dimethyl S-[(4-oxo-1,2,3-benzo-triazin-3(4H)-yl)methyl] phosphorodithioate |
|---|
| 100% |
| Contains 2 lb 0,0-Dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl] phosphorodithioate per gallon. |
| DO NOT STORE BELOW 25°F. PROTECT FROM HEAT. |
| KEEP AWAY FROM OPEN FLAME. DO NOT HEAT. |

EPA Reg. No. 3125-123

NET CONTENTS: ____ GALLONS

KEEP OUT OF REACH OF CHILDREN

STOP - READ THE LABEL BEFORE USE.

DANGER **PELIGRO**

POISON

(See rear panel for Statements of Practical Treatment and Additional Precautionary Statements)

PRECAUTION AL USUARIO: Si-usted no puedo losr-o entendor inglés, no uso-osto producto hosta que la étiqueta le haya sido explicada ampliamento.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(TO-THE USER: --If-you-connot read-or understand English, do not use this product until the label has been fully explained to you.)

(If you do not understand the label, find someone to explain it to you in detail.)







JAN 1 / 1994

Under the Federal Intecheda, Fundicide, and Reduntation Ant. In amended, for the postable registeret under EPA Reg. No. 3125-123

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

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

When loading spray tank or handling the concentrate at any other-time, wear-protective clothing, natural rubber gloves, and goggles. Wear a posticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR-Part II.

Do not contaminate feer foodstuffs. Keep out of reach of children and domestic animals. Keep all unprotected persons out of the operating area or visinity where there may be danger of drift. Wach hands, arms, and face theroughly with coap and warm water before eating or emoking.

Personal Protective Equipment: Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

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

- Coveralis over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or siton
- Chemical-realistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-registant apron when cleaning equipment
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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

- Coveralls over short-sleeved shirt and short pants
- Chemical resistant gloves, such as barrier laminate or viton
- Chemical resistant footwear plus socks
- · Protective evewear





Chemical-resistant headgear

- Chemical-resistant apron when mixing or loading
- 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 pretix TC-21C)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products 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)(4-8)); the handler PPE requirements may be reduced or modified as specified in the WPS.
- 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 Recommandations: User should:

- Wash hands before cating, drinking, chewing gum, using tobecco 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.

HANDLING OF CONTAMINATED ARTICLES: -Clothing and rega receiving undiluted GUTHION 25 as a result of leaks, opile, or michops chould be removed immediate by and not reused. These contaminated articles chould be dispected of in the same manner as the empty-container; are container dispectal-section for directions. -{Contaminated articles which chould be discorded would include: hate, gloves, oprons, costo, bootc, etc. not made of rubber or costed with rubber or other cimilar materials). -Clothing receiving opray-mist or droplets from the mixed, diluted GUTHION 25 chould be removed and decontaminated before rouce.

This elething can be decentaminated by machine washing separately from other-items with scop or detergent and bleach in hot water twice before rouse. Protective clothing and equipment should be washed down with detergent or scop and bleach in water. Wash water from the cleaning of protective clothing or equipment should not be allowed to run off or otherwise enter-water supplies.

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

STATEMENTS OF PRACTICAL TREATMENT

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. 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 tours. 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 when disposing of equipment wastewater. Drift and runoff from treated areas may be histardous 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.

PHYSICAL AND CHEMICAL HAZARDS

Keep away from open flame. Do not heat.



PROTECTIVE CLOTHING AND WORK SAFETY STATEMENTS

If hendled indeers previde mechanical exhaust ventilation.

Keep all unprotected persons, children, livestock, and pots eway from treated areas or where there is danger of drift.

De-not rub-eyes or-mouth with hands, - If you feel-sick in eny way, STOP work and get-help right away. - See First Aid section of the label.

For questions regarding further trantment, or information about—the—product,—cell—the—National—Posticido Telecommunications-Network st 900-858-7378;

HANDLE-THE-CONCENTRATE-ONLY-WHEN WEARING THE--FOLLOWING--PROTECTIVE--CLOTHING--AND EQUIPMENT:

Wear a protective cuit of one-or-two pieces that covers all parts of the body except the head, hands, and feet, -Wear chemical resistant gloves, chemical resistant apren, and chemical resistant choos, shee coverings, or boots. -Wear geggles-or-a -face - chield - and - a - pesticide - respirator approved by the National Institute for Occupational Safety and Health under the provision of 30-CFR Part-11.

If handling the concentrate with a closed system, long cleaved chirt and long logged pants may be substituted for the protective - suit and the respirator requirement is waived.

WEAR THE FOLLOWING PROTECTIVE CLOTHING DURING APPLICATION, SQUIPMENT REPAIR, EQUIPMENT CLEANING, DURING REENTRY TO TREATED AREAS, AND DISPOSAL OF THE PESTICIDE; Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves and chemical resistant shoos, shoe coveringe, or boots. Wear a chemical resistant hat during sirblest application.

During application from an enclosed tractor cab or airplane eookpit, or other suitable vehicle in which the windows are rolled up, long closved chirt and long pants may be worn in place of the above protective clothing. Chemical rocistant gloves must be available in the cab or cookpit and must be worn while exiting. This clothing is inadequate to protect you during posticide disposal.

IMPORTANTI BEFORE REMOVING GLOVES, WASH THEM WITH SOAP AND WATER. ALWAYS WASH HANDS, FACE, AND ARMS WITH SOAP AND WATER BEFORE SMOKING, DRINKING, EATING OR TOILETING.

After work, take off all clothing and shoos. Shower using seap and water. ... Do-not-wear-contaminated clothing. Wash protective clothing and protective equipment-with scap and water-after each use. Respirators must be cloaned and filters replaced according to instructions included with the respirators. Personal clothing worn during use must be laundered ceparately from household articles. ... Clothing-and protective equipment heavily contaminated or drenched with GUTHION azinphes methyl must be destroyed according to state and local regulations. HEAVILY CONTAMINATED OR DRENCHED GLOTHING CANNOT BE. A DEQUATELY DECONTAMINATED.

During-serial-application,-human-flaggere-are-prohibited unless in totally enclosed-vehicle-

RE-ENTRY STATEMENTS FOR FARM-WORKERS

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 unprotested persons. Do not enter treated ereas for 24 hours after application unless protective slothing is worn, as described in the product labeling. 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.

(The following may spece on supplemental labeling eccompanying the product). Written or oral warnings must be given to workers who are expected to be in a treated eros or in an area about to be treated with this product. Oral-warnings should include these statements found under the label heading "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language oustomarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings eannot be understood by workers. Written warnings must include the following information: DANGER, area treated with GUTHION-2S on (date of application). Do not enter treated areas for 24 hours after application unless protective elething is worn, as described in the product labeling. If an attin, remove contaminated elething and wash skin immediately with scopp and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes, If ewellewed, vemiting should be induced. (See Presentionary-Statements on label).



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

r than 6 months after the last application. Do not a

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 handlars may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 pontains 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 aguipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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

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

- Coveralia over short-seeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or viton
- · Chemical-resistant footwear plus socks

Chemical-resistant headgear for overhead exposure

IMPORTANT: Read these entire Directions and Conditions of Sale before using GUTHION 2S emulsifiable insecticide.

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

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DIRECTIONS FOR USE

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 2S emulsifiable insecticide forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To mix with water, pour the required amount of GUTHION 2S into full amount of water and then agitate. If cold water is to be used and nozzle or screen plugging is experienced, 16 mesh slotted screens (from Spraying Systems Co.) are recommended.

COMPATIBILITY: GUTHION 2S is physically compatible with many registered pesticides and liquid fertilizers. When considering mixing GUTHION 2S with other pesticides or with liquid fertilizers, 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.



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DOSAGE: Use specified dosage of GUTHION 2S 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.

CHEMIGATION

GUTHION 2S 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 2S may not be applied to that crop through irrigation systems.

Types of Irrigation Systems: Apply GUTHION 2S only through sprinkler, including center pivot, lateral move, side roll, overhead solid set, or low pressure sprinkler irrigation systems. Do not apply GUTHION 2S through any other type 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 specialists, 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: DO NOT APPLY GUTHION 2S THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM. 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.

GUTHION 2S may be applied through any of the recommended types of irrigation systems which may be supplied by a public water system only if 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 or 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.



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System:: 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.

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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 2S alone, a chemical supply tank is not necessary for premixing since GUTHION 2S mixes well with water in the irrigation line. If a chemical supply tank is used, for application of GUTHION 2S 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.

Chemical Supply Tank Dilution: If a chemical supply tank is used, you must determine the required amounts of GUTHION 2S to mix in the tank. The amount of GUTHION 2S needed equals the number of pints of GUTHION 2S to be applied per acre multiplied by the number of acres to be chemigated.

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

The amount of water needed equals the amount of emulsion needed minus the amount of GUTHION 2S needed.

For example, if you want to apply 3 pints of GUTHION 2S per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need: 3 pints GUTHION 2S per acre X 130 acres - 390 pints or 48.75 gallons of GUTHION 2S. And, you need: 15 gallons per hour X 20 hours = 300 gallons of emulsion, minus 48.75 gallons of GUTHION 2S = 251.25 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.

SPRINKLER IRRIGATION SYSTEMS

All directions and requirements under the GENERAL DIRECTIONS AND REQUIREMENTS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS section of this label must be followed for sprinkler irrigation systems.

In addition, the following directions apply to sprinkler irrigation systems:

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

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. For a soil application, the system should be run at a slower speed with application in at least 1/4 inch of water.



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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. For soil treatment, application should be in at least 1/4 inch of water. DO NOT USE END GUNS.

| RECOMMENDED APPLICATIONS | | | | | |
|--------------------------|---|---------------------|---|--|--|
| CROP | INSECT | PINTS GUTHION 2S | REMARKS | | |
| FIELD CROPS Cotton | Boll Weevil | 1/2 to 1 | Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. For application by irrigation systems: Apply specified dosage per acre. Follow all directions given under | | |
| | Brown cotton leafworm Cotton fleahopper Cotton leafworm | 1 | the CHEMIGATION section of this label. No more than a total of 12 applications or 24 pints per acre per crop season may be used regardless of rate, formulation or method of | | |
| | Pink bollworm (Arizona and California only) | 2 to 3 | application used. Applications may be made up to 1 day before hand picking for rates up to 2 pints per acre or within 17 days of picking at rates above 2 pints | | |
| | Rapid plant bug Tarnished plant bug (Lygus) Thrips | 1 to 2 | per acre. Cotton may be machine harvested any time after application. For control of the larval stages of resistant and non-resistant bollworm and/or tobacco budworm, BOLSTAR 6 insecticide may be included in | | |
| | Stink bug | 2 | GUTHION 2S tank mixes. See NOTE below. Do not graze treated fields. | | |

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| • | | RECOMMENDE | D APPLICATIONS | | |
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| CROP | INSECT | PINTS GUTHION 25 | REMARKS | | |
| FIELD CROPS (Continued) Cotton (Ultra Low Volume Spray)* | Boll weevil | 1/2 to 1 | GUTHION 2S may be used undiluted in any ground or aerial spray equipment that has been adapted and calibrated for ultra-low volume spraying. Spray machines must be equipped with accepted low volume devices that will produce droplets within the range of 30 to 100 microns in size. ULV aerial applications should be made at altitudes of 10 to 20 feet. A total of 12 applications may be made per crop season | | |
| | | | regardless of rate, formulation or method of application used. Application may be made up to 2 days before hand picking. Cotton may be machine harvested any time after application. | | |
| | | | Early and Mid-season Control: Apply specified dosage per acre in accordance with local recommendations. | | |
| | | | Diapause Weevil Control: The one pint per acre rate only is recommended for control of diapausing boll weevils. Schedule applications in accordance with local recommendations. | | |
| | | | Do not graze treated fields. | | |
| | | | NOTE [•] This formulation, when used undiluted, may cause spotting of automobile finishes if prolonged exposure is permitted. Do not spray directly over automobiles. If accidental exposure does occur, automobiles should be washed immediately. | | |
| rates, precaution | GUTHION 2S may be tank-mixed in one application with DEF 6 Defoliant. Refer to label for DEF 6 recommended rates, precautions, and restrictions. Preceding the use of this tank mix, GUTHION 2S may be applied as a maximum of 9 times at 1 pint per acre. The maximum rate of DEF 6 in a tank-mix combination is 2 pints per acre. | | | | |
| Rye | Cereal leaf beetle | 1-1/2 to 2 | Apply specified dosage per acre by air or ground equipment in sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than once per season. Do not harvest for food, feed, forage or graze within 30 days of treatment. | | |

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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.

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| | RECOMMENDED APPLICATIONS | | | |
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| CROP | INSECT | PINTS GUTHION 2S | REMARKS | |
| FRUIT Apples Crabapples Quinces (Washington, Oregon, Idaho & Utah) | Apple maggot Codling moth European apple sawfly Eye-spotted bud moth Fruittree leaf roller Green fruitworm Orange tortrix Plum curculio Red-banded leaf roller | 2 to 4 | Apply specified dosage per acre by helicopter or fixed wing aircraft using equipment capable of applying ultra- low-volume sprays. Use Beecomist nozzles with 20 micron sleeves. A total of 4 applications of GUTHION insecticide may be made per crop season regardless of rate, formulation or method of application used. No more than 2 of the 4 applications may be made by aircraft. Allow at least 7 days between applications, and 7 days between last application and harvest. NOTE: This formulation, when used undiluted, may cause spotting of automobile finishes if prolonged exposure is permitted. Do not spray directly over automobiles. If accidental exposure does occur, automobiles should be washed immediately. | |
| Nectarines Peaches (Eastern US) | Aphids* Cottony peach scale European fruit lecanium scale Forbes scale Lesser peach tree borer Oriental fruit moth Peach twig borer Peach tree borer Platynota flavidana leaf roller Plum curculio Redbanded leaf roller San Jose scale* Stink bug Thrips Tarnished plant bug Terrapin scale Walnut scale White peach scale | 3 1/2 to 4 1/2 | Apply specified dosage per acre as a full coverage spray. Allow at least 14 days between applications. A total of 13-1/2 pints per acre per crop season may be applied to nectarines. A total of 18 pints 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 2S is compatible with dormant and summer oils which may be added to peach sprays in accordance with local recommendations. | |
| 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 | 6 to 8 | Apply specified dosage per acre. Allow at least 14 days between applications. A total cf 13-1/2 pints per acre per crop season may be applied to nectarines. A total of 18 pints 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. | |

| • | RECOMMENDED APPLICATIONS | | | | |
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| CROP | INSECT | PINTS GUTHION 2S | REMARKS | | |
| FRUIT (Continued) Plums 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 | 3-1/2 to 4-1/2 [1 to 1-1/2 pints per 100 gallons] 6 | Apply specified dosage per acre as a full coverage spray. A total of 13-1/2 pints 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 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 2S 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 | 4 to 8 6 to 8 | Apply specified dosage per acre. A total of 13-1/2 pints 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 peach tree borer, apply 2 or 3 sprays to trunk from ground to scaffold limbs, timed with moth flight. | | |

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| CROP | INSECT | PINTS GUTHION 2S | REMARKS |
| FRUIT (Continued) | Leafhoppers Leafrollers | 1 | Apply specified dosage per acre to foliage using approximately 200 gallons of water for good coverage. |
| Blackberries Boysenberries | Leafminers | 1-1/4 | Where ground conditions dictate an air application of GUTHION 2S, use specified rate in a minimum of 1 gallon of water per acre. |
| Loganberries Raspberries | Aphids* | 1-1/4 to 2 | Do not apply within 14 days of harvest. |
| | Obscure root weevil | 2 | Do not apply more than twice per season. |
| | Obscure root weevil | 2 | For control of root weevils 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 | 2 to 3 | 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</i> <i>sulfureana</i> Tipworm | 2 to 4 | 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. |
| | Fireworms | 4 | 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. |

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| , , | RECOMMENDED APPLICATIONS | | | | |
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| CROP | INSECT | PINTS GUTHION 2S | 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 Glove scale Orange tortrix Purple scale Snow scale Western tussock moth Whiteflies California red scale | 5 to 8 | 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 two 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. 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. | | |
| Grapes Strawberries | Yellow scale Grape berry moth Grape cane girdlers Grape mealybug Leafhoppers* Redbanded leaf roller Thrips Grape leaf skeletonizer Aphids* Meadow spittlebug Oblique-banded leaf roller Obscure root weevil Ornnivorous leaf tier Pea leaf weevil | 3 to 4 | 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. For higher rates allow at least 10 days between last application and harvest. 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 | | |
| | Pea leaf weevil Small black (grass) weevil Strawberry leaf roller Whitefly | | 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 | | | | |
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| CROP | INSECT | PINTS GUTHION 2S | REMARKS | | |
| NUTS Aimanjs | Peach twig borer Navel orangeworm | 6 to 8 | 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 60 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 | 6 to 8 | 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 | 6 to 8 | 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. | | |
| used alone may r | • | | nce to organophosphate insecticides. GUTHION insecticide eas. Consult your local agricultural advisor or cooperative | | |
| Walnuts | Codling moth Filbertworm Navel orangeworm Walnut husk fly Red-humped caterpillar | 6 to 8 | 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. Allow at least 21 days between last application and harvest. Do not graze livestock in treated groves for 21 days after treatment. | | |

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| | | RECOMMENDED | APPLICATIONS |
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| CROP | INSECT | PINTS GUTHION 2S | REMARKS |
| VEGETABLES Artichokes | Plume moth | 6 | 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 14 days between applications and at least 30 days between last application and harvest. Do not feed or ensile treated forage. |
| Broccoli Brussels sprouts Cabbage (Includes tight heading varieties of Chinese | Aphids* Cabbage looper Diamond-back moth Imported cabbage-worm | 2 to 3 | Apply specified dosage per acre in sufficient water for complete coverage but not less than 1 gallon per acre. 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) Cauliflower | Cabbage maggot | 1/2 | Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant immediately after transplanting. |
| | Cabbage maggot (Transplant Fields in California only) | 3 | Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in the 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. |
| | Cabbage maggot (Direct Seeded Fields in California only) | 3 | Apply specified dosage per acre in sufficient water for uniform distribution. Mix in the 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 upon time of year and maggot population. Do not apply within 21 days of harvest. |
| | | | Do not exceed more than 3 applications per season. |
| Celery | Aphids* Leaf miners Leafhoppers Spittlebugs Tarnished | 2 | 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. |
| | plant bug | | Do not exceed more than 3 applications per season. |
| Cucumbers | Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle | 2 | 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 of method of application used. |
| | | | Allow at least 7 days between applications and at least 1 day between last application and harvest. |

| | RECOMMENDED APPLICATIONS | | | | |
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| CROP | INSECT | PINTS GUTHION 2S | REMARKS | | |
| VEGETABLES (Continued) Eggplant | (Continued) complete coverage. For applica Eggplant Leaf miners 1-1/2 to 2 systems: Apply specified dosage p direction given under the CHEMIG CHEMIG CHEMIG | systems: Apply specified dosage per acre. Follow all direction given under the CHEMIGATION section of this label. A total of 3 applications may be made per | | | |
| | European com borer Flea beetles | 2 | crop season regardless of rate, formulation or method of application used. | | |
| | | | Allow at least 7 days between applications, and at least 21 days between last application and harvest. | | |
| Onions (Green and Drγ) | Thrips | 2 to 3 | 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 cf 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. | | |
| Peppers | Leaf miners | 1-1/2 to 2 | 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 | | |
| | European corn borers Flea beetles | 2 | of rate, formulation or method of application used. Allow at least 7 days between applications and 21 days between last application and harvest. | | |
| Potatoes | Colorado potato beetle | 1-1/2 | Apply specified dosage per acre in sufficient water fo complete coverage. For application by irrigation systems: Apply specified dosage per acre. Follow al | | |
| | Banded cucumber beetle Leaf miners | 1-1/2 to 2 | directions given under the CHEMIGATION section o this label. A total of 3 applications may be made pe crop season regardless of rate, formulation or method of application used. | | |
| | European corn borer Flea beetle Leafhoppers Spittlebugs Tarnished plant bug | 2 to 3 | Allow at least 7 days between applications and days between last application and harvest. NOTE: Resistance of Colorado potato beetle ha | | |
| | Tuberworms | 2-1/4 to 3 | occurred in some areas. Consult your local Extensio Service or MILES Sales Representative for details. | | |

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| CROP | INSECT | PINTS GUTHION 2S | REMARKS | | |
| VEGETABLES (Continued) Tomatoes | Colorado potato beetle | 1-1/2 | 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 | | |
| | Banded cucumber beetle 1-1/2 to 2 Drosophila Green stink bug Leaf miners Inter state instar lepidopterous larvae pinworms are present. | Allow at least 7 days between applications. | | | |
| Aphids*2 to 3day of harvest.European corn borerRates above 3 pints requirFlea beetlesbetween last application andGrasshoppersNOTE: Resistance of Co | Rates above 3 pints require an interval of 14 days between last application and harvest. | | | | |
| | Tuberworm | 2-1/4 to 3 | Service or MILES Sales Representative for details. | | |
| | Fruitworm Hornworm Pinworm Yellow-striped armyworm | 3 to 6 | | | |
| insecticide used | I is, these species may have I alone may not provide satis rension service for recommen | factory control i | sistance to organophosphate insecticides. GUTHION n those areas. Consult your local agricultural advisor or | | |
| MELONS Honeydew melons Muskmelon (Cantaloupe) Watermelons | Leafhoppers Leaf miners | 1-1/2 to 2 | 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 | | |
| Other Melons | Rindworms Spotted cucumber beetle Striped cucumber beetle Western-striped cucumber beetle | 2 | of application used. Allow at least 5 days between applications and at least 7 days between last application and harvest. | | |

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| RECOMMENDED APPLICATIONS | | | |
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| CROPS | INSECTS | PINTS GUTHION 2S | REMARKS |
| ORNAMENTALS Ornamentals Nursery Plants | Aphids* Black vine weevil <i>Cerococcus</i> scale Euonymus scale Juniper scale Lace bugs Leafhoppers Olive scale Oystershell scale <i>Pulvinaria</i> scale Thrips | 1-1/2 to 2 | Apply specified dosage per 100 gallons** of water. Spray all foliage surfaces including the underside of leaves for complete coverage. Repeat applications may be made as necessary. |
| | Brown soft scale Putnam scale | 4 | |
| | Black pine leaf scale European elm scale | 3 to 4 | |
| | European pine shoot moth Nantucket pine tip moth | 1-1/2 to 3 | Apply specified dosage per acre in sufficient water for good coverage. Time applications to coincide with moth flights. |
| Christmas Trees | Scale spp. Sawfly spp. European pine shoot moth Eastern pine shoot borer Nantucket pine tip moth | 1-1/2 to 3 | 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. |
| Southern Pine Seed Orchards | Coneworm Seedworm | See Remarks | Use 6 pints per 100 gallons of water (0.2% dilution) as a full coverage spray**. Use 3 pints 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. |

Injury to Hawthorn or American linden may occur under some conditions. Do not allow children or pets in treated area until material has been washed into soil and treated area is dry.

*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 2S insecticide in the spray mixture in order to apply amount of GUTHION 2S insecticide 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.

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. Do not apply when weather conditions favor drift from areas treated.

STORAGE AND DISPOSAL

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

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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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Do not store below 25°F. Keep away from open flame and extreme heat. 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 container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides 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 Emeigency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

Miles Inc. Crop Protection Products Box 4913, Kansas City, MO 64120-0013