

66222-162

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 06 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Christie Hitchcock
Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Rd., Suite 300
Raleigh, NC 27609

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Ms. Hitchcock:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated August 28, 2008 for:

EPA Registration 66222-162

Guthion® Solupak

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

If you have any questions, at 703 305-5409 or electronically at daniel.dani@epa.gov

Sincerely,

A handwritten signature in black ink, appearing to be "DS" or similar initials.

Dani Daniel
Registration Division (7505P)
Insecticide/Rodenticide Branch



United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 66222-162	2. EPA Product Manager Linda Arrington	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Guthion® Solupak	PM# Registration Support Branch	
5. Name and Address of Applicant (Include ZIP Code) Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd., Suite 300 Raleigh, NC 27609 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance of PR Notice 2007-4 and requirements of EPA's regulations at 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statements to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	<input checked="" type="checkbox"/> Glass	<input type="checkbox"/> Paper
			1 lb	5	Other (Specify) _____
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 5 lbs or less; greater than 5 lbs		5. Location of Label Directions <input checked="" type="checkbox"/> on label	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input checked="" type="checkbox"/> Other Self-adhesive		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Christie Hitchcock		Title Regulatory Specialist		Telephone No. (Include Area Code) 919-256-9342	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Regulatory Specialist			
4. Typed Name Christie Hitchcock		5. Date 08-28-08			



August 28, 2008

Document Processing Desk (NOTIF)
Registration Division (7504P)
OPP, USEPA
Ariel Rios Building
1200 Pennsylvania Ave, NW
Washington DC 20460

Re: Guthion® Solupak; EPA Reg. No: 66222-162
Notification per PRN 98-10 and 2007-4

To Whom It May Concern:

We are notifying the Agency of several label updates as allowed in PR Notices 98-10 and 2007-4. The changes are summarized below:

- Updated container disposal instructions per PRN 2007-4

In support of this submission, the following documents are attached:

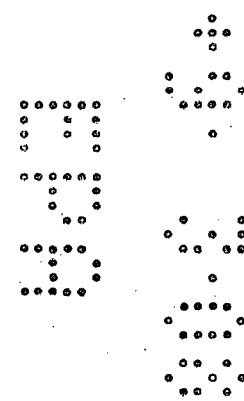
- Application for Pesticide Registration (EPA Form 8570-1)
- One copy of final printed labeling

Please contact me at 919-256-9342 or by email at chitchcock@manainc.com if you have any questions regarding this submission or would like a copy of the annotated label showing the changes for your files.

Sincerely,

Christie Hitchcock
Regulatory Specialist

Enclosures



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® Solupak

50% WETTABLE POWDER CROP INSECTICIDE IN WATER-SOLUBLE PACKETS

For effective economical insect control.

ACTIVE INGREDIENT:	% BY WT.
O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazin-3(4H)-yl)methyl]phosphorodithioate	50.0%
INERT INGREDIENTS:	50.0%
TOTAL	100.0%

EPA Reg. No. 66222-162

EPA Est. No. [REDACTED]

Manufactured for:
 Makhteshim Agan of North America, Inc.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609

Net Contents: Five 1-lb water-soluble packets

DEALERS SHOULD SELL IN ORIGINAL PACKETS ONLY

Keep water-soluble packets in this container and store in a cool dry place, but not below freezing (32° F). Protect from heat. Keep away from open flame. Do not heat. Entire inner packets dissolve in water. After opening outer bag, drop the required unopened inner packets into spray tank as directed. Do not excessively handle water-soluble packet or expose it to moisture, since this may cause breakage.

SPECIAL NOTICE TO USERS:

- Application to Almonds, Pistachios, and Walnuts are prohibited after October 30, 2009
- Applications to Apples, Crabapples, Blueberries, Cherries, Parsley, and Pears are prohibited after September 30, 2012
- Limits on maximum annual application rates may change, depending on the year. Check the directions for use for each crop for details.



KEEP OUT OF REACH OF CHILDREN
DANGER POISON
PELIGRO



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.)

FIRST AID

Contains an organophosphate that inhibits cholinesterase	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.

If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.</p>	
<p>Note 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.</p>	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER**

Fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe dust or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, PVC and viton. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers, loaders and applicators using engineering controls, including enclosed-cockpit aerial equipment and enclosed-cab ground equipment (see engineering control options and requirements) must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves when mixing and loading
- Chemical-resistant apron when mixing and loading.

Applicators not in enclosed-cab ground equipment, handlers supporting aerial application within 300 feet of the application site, and handlers engaged in activities for which use of an engineering control is not possible, such as cleaning up a spill or leak and cleaning or repairing contaminated equipment, must wear:

- Chemical-resistant coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron, if exposed to the concentrate
- A respirator with 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), or a NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or He prefilter. Do not use type N-series prefilter if oil is added to the spray tank for application.

See Engineering Controls for additional options and requirements.

ENGINEERING CONTROLS STATEMENTS:

- Water-soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard for agricultural pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water-soluble packets must:
 - wear the personal protective equipment required in the PPE section of this labeling for mixers/loaders, and
 - be provided, must have immediately available, and must wear in an emergency, such as a broken package, spill, or equipment breakdown: chemical-resistant footwear plus socks, and the type of respirator specified in the PPE section of this labeling for spill clean-up.
- Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].
- Human flagging is prohibited.

ENGINEERING CONTROLS FOR APPLICATIONS TO ALMONDS, PARSLEY, PISTACHIOS, AND WALNUTS

Applicators using motorized ground equipment for applications to almonds, parsley, pistachios, and walnuts must use an enclosed cab that meets the definition in the Worker Protection Standard for agricultural pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, applicators must:

- wear the PPE required in the PPE section of this product labeling for applicators using engineering controls.

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- **either** wear the respirator specified in the PPE section of this product labeling for applicators not using engineering controls **or** use an enclosed cab that is declared in writing by the manufacturer or by a government agency to provide at least as much respirator protection as the type of respirator specified for handlers not using engineering controls,
- be provided, must have immediately available, and must wear in an emergency, when they must exit the cab in the treated area: coveralls, chemical-resistant gloves, chemical-resistant footwear, chemical-resistant headgear, if overhead exposure, and – if not already using one – the respirator specified for handlers not using engineering controls,
- take off any PPE that was worn in the treated area before reentering the cab, and
- store all such PPE in a chemical-resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

ENGINEERING CONTROLS FOR APPLES, BLUEBERRIES, CHERRIES, CRABAPPLES, AND PEARS

When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(5), the handler may wear the PPE specified for applicators using engineering controls in the PPE section on this product labeling.

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife. For terrestrial uses, do not apply directly to water or to area where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Drift and runoff may be hazardous to aquatic organisms in neighboring areas.

This product is highly toxic to bees exposed directly to treatment of residues on crops. 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.

This chemical can contaminate surface water through spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

PHYSICAL AND CHEMICAL HAZARDS

Keep away from open flame. Do not heat.

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 that are covered by the WPS.

Do not enter or allow entry into treated areas during the restricted entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Under specified conditions, the WPS allows workers to enter pesticide treated areas during a REI to perform certain agricultural tasks. Under WPS, the following exceptions to the REI may apply to double notification chemicals:

- no contact early entry (40CFR170.112(b))
- short term tasks with no hand labor (40CFR170.112(c))
- tasks during an agricultural emergency (40CFR170.112(d)).

For complete information on requirements for these early entry exceptions, please refer to "The Worker Protection Standard for Agricultural Pesticides -- How to Comply: What Employers Need to Know," dated September 2005 (EPA735-B-05-002), and to the EPA website at <http://www.epa.gov/agriculture/htc.html>.

In addition, certified crop advisors and persons performing crop advising tasks under a qualified crop advisor's direct supervision are exempt from certain specified provisions of the WPS. For complete information on crop advisor exemptions under WPS, refer to 40CFR170.104.

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

- Coveralls over long-sleeved shirt and long pants;
- Chemical-resistant gloves made of any waterproof material;
- Chemical-resistant footwear plus socks;
- Chemical-resistant headgear for overhead exposure.

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.

MIXING: The enclosed packets containing GUTHION SOLUPAK insecticide are **water-soluble**. Do not allow packet to become wet prior to adding to the spray tank. Do not handle with wet hands. After opening outer bag, drop the required unopened inner packets into spray tank as directed. Entire inner packets dissolve in water. Reseal outer bag to protect remaining packets.

To prepare the spray mixture, drop the required number of unopened packets, as determined under "Recommended Application", into the spray tank while filling with water to the desired level. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within approximately 5 minutes from the time they were added to the water.

COMPATIBILITY: GUTHION SOLUPAK is physically compatible with many registered pesticides and liquid fertilizers. Do not use PVA packets in a tank mix with products that contain boron or release free chlorine. The resultant reaction of PVA and boron or free chlorine is a plastic, which is not soluble in water or solvents. When considering mixing GUTHION SOLUPAK with other pesticides or with liquid fertilizer, first contact your supplier. For further information, contact your local MANA representative. If your supplier and MANA 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, MANA recommends that the combination not be used.

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

DOSAGE: Use specified dosage of GUTHION SOLUPAK in the amount of water necessary to give complete coverage of foliage. Determine the total amount of wettable powder to be added to the spray tank based on the rates under "Recommended Application." For each one pound of wettable powder to be added to the spray tank use one 1 pound packet. For example, if it is determined that 2 pounds of GUTHION SOLUPAK should be added to the spray tank, add two 1-pound packets. The type of equipment used will determine the concentration required; however, use of these packets is not recommended for making highly concentrated mixtures such as used in aircraft spraying.

SPRAYING: Backpack or hand wand spraying is prohibited. Work to windward. 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.

USE OF THIS PRODUCT IN GREENHOUSES OR ENCLOSED AREAS IS PROHIBITED.

CLOSED COCKPITS ARE REQUIRED FOR ALL AERIAL APPLICATIONS.

AERIAL APPLICATION IS ONLY ALLOWED ON BLUEBERRIES.

DO NOT APPLY TO THE POINT OF RUNOFF.

HUMAN FLAGGING IS PROHIBITED.

DO NOT GRAZE LIVESTOCK IN TREATED ORCHARDS.

REQUIREMENTS FOR REDUCING SPRAY DRIFT

Do not apply under conditions where possible drift to unprotected persons or to food, forage, or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption can occur.

1. Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. For groundboom and aerial applications, use medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles.
2. Make aerial or ground applications when the wind velocity favors on-target product deposition. Apply only when the wind speed is less than 10 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.
3. Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
4. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.
5. All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
6. For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.
7. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows.
8. For aerial applications, release spray at the lowest height consistent with efficacy and flight safety. If the application includes an aquatic buffer zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.
9. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wingspan or 90% of rotor blade diameter. Use upwind swath displacement.
10. Do not apply this product within 60 feet of (1) buildings occupied by humans for residential, commercial, or business purposes, including, but not limited to, homes, farmworker housing, or other residential buildings; schools, daycare centers, nursing homes, hospitals, and (2) outdoor recreational areas such as school grounds, athletic fields, and parks. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.

To address Integrated Pest Management Issues: Local integrated management systems are available for controlling the pests on this label. Such systems include the use of biological control agents, alternative chemicals and scouting. Consult your local Extension specialist or other consultant for further details.

RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
NOTE: It is suggested that when treating fruit trees during the bloom period, bee keepers should be warned well in advance to remove hives a safe distance from orchards to be treated.			
Apples Crab apples	Aphids*	2 to 3	Do not use this product on apples or crabapples after September 30, 2012.
	Apple maggot		
	Codling moth	[0.5 to 0.75 lb per 100 gallons]	Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 14 days.
	European apple sawfly	[assuming 400 gal/A]	
	Eye-spotted bud moth		PHI = 14 days for rates less than or equal to 1.0 lb ai/A (2.0 lbs product/A).
	Forbes scale		
	Fruittree leaf roller		
	Green fruitworm*		PHI = 21 days for rates greater than 1.0 lb ai/A (2.0 lbs product/A).
	Leafhoppers*		
	Mealybug*		Minimum of 7 days between applications.
	Orange tortrix		
	Pear midge		Limit to a yearly maximum application rate of 4.0 lbs ai/A (8.0 lbs product/A) in 2007.
	Plum curculio		
	Putnam scale		Limit to a yearly maximum application rate of 3.0 lbs ai/A (6.0 lbs product/A) in 2008 and 2009.
	Red-banded leaf roller		
San Jose scale*			
Stink bug		Limit to a yearly maximum application rate of 2.0 lbs ai/A (4.0 lbs product/A) in 2010.	
Tarnished plant bug*			

		<p>Limit to a yearly maximum application rate of 1.5 lbs ai/A (3.0 lbs product/A) in 2011 and 2012.</p> <p>Maximum single application rate is 1.5 lbs ai/A (3.0 lbs product/A).</p> <p>Apply specified dosage per acre by ground equipment in sufficient water for good coverage. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Applications made at rates above 2 pounds per acre can only be made in conjunction with an Integrated Pest Management (IPM) program.</p> <p>Use during dormant season is prohibited.</p> <p>Aerial application is prohibited.</p> <p>A vegetative buffer zone of 60 feet must be maintained around water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations, to enter a treated area for 44 days after application of this product when applying at rates of 1.01 to 1.5 lbs ai/acre (2.02 to 3.0 lbs product/A).</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations, to enter a treated area for 39 days after application of this product when applying at rates of 0.6 to 1.0 lbs ai/acre (1.2 to 2.0 lbs product/A).</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations, to enter a treated area for 33 days after application of this product when applying at a rate of 0.6 lbs ai/acre or less (1.2 lbs or less product/A).</p> <p>GUTHION SOLUPAK is compatible with oils which may be added to apple sprays in accordance with local recommendations.</p>
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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
Pear	Aphids*	2 to 3	Do not use this product on pears after September 30, 2012.
	Apple maggot		Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 14 days.
	Codling moth	[0.5 to 0.75 lb per 100 gallons]	PHI = 14 days for rates less than or equal to 1.0 lb ai/A (2.0 lbs product/A).
	European apple sawfly	[assuming 400 gal/A]	PHI = 21 days for rates greater than 1.0 lb ai/A (2.0 lbs product/A).
	Eye-spotted bud moth		Minimum of 7 days between applications.
	Forbes scale		Limit to a yearly maximum application rate of 3.0 lbs ai/A (6.0 lbs product/A) in 2007.
	Fruittree leaf roller		Limit to a yearly maximum application rate of 3.0 lbs ai/A (6.0 lbs product/A) in 2008.
	Green fruitworm*		Limit to a yearly maximum application rate of 2.0 lbs ai/A (4.0 lbs product/A) in 2009 and 2010.
	Leafhoppers*		Limit to a yearly maximum application rate of 1.5 lbs ai/A (3.0 lbs product/A) in 2011 and 2012.
	Mealybug*		Maximum single application rate is 1.5 lbs ai/A (3.0 lbs product/A).
	Orange tortrix		Apply specified dosage per acre by ground equipment in sufficient water for good coverage. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Applications made at rates above 2 pounds per acre can only be made in conjunction with an Integrated Pest Management (IPM) program.
	Pear midge		Use during dormant season is prohibited.
	Plum curculio		Aerial application is prohibited.
	Putnam scale		A vegetative buffer zone of 60 feet must be maintained around water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.
	Red-banded leaf roller		Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations, to enter a treated area after application of this product for the entire growing season.
San Jose scale*		GUTHION SOLUPAK is compatible with oils which may be added to pear sprays in accordance with local recommendations.	
Stink bug			
Tarnished plant bug*			

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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
Cherries (Sweet and Tart)	Eye-spotted bud moth	1.5	Do not use this product on cherries after September 30, 2012.
	Forbes scale	[0.5pound per 100 gallons]	Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 15 days.
	Fruit flies		PHI = 15 days.
	Fruittree leaf roller	[assuming 300 gal/A]	Minimum of 14 days between applications.
	Lesser peach tree borer		Limit to a yearly maximum application rate of 1.5 lbs ai/A (3.0 lbs product/A) in 2007, 2008 and 2009.
	Plum curculio		Limit to a yearly maximum application rate of 0.75 lbs ai/A (1.5 lbs product/A) in 2010, 2011, and 2012.
	San Jose scale*		Maximum single application rate is 0.75 lbs ai/A (1.5 lbs product/A).
	Cherry leaf miner Mineola moth		Apply specified dosage per acre by ground equipment as a full coverage spray. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Use during dormant season is prohibited. Aerial application is prohibited. A vegetative buffer zone of 60 feet must be maintained around water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds. Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations, to enter a treated area after application of this product for the entire growing season. California: Apply after fruit harvest but before leaf fall.

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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
<p>Blueberries, highbush & rabbiteye (for use in AL, AR, FL, GA, IN, MI, NJ, NY, & NC only. Application in any other state is prohibited)</p>	<p>Blueberry maggot Fruitworms Lecanium scale Plum curculio</p>	<p>1 to 1.5</p>	<p>Do not use this product on high bush blueberries after September 30, 2012.</p> <p>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 7 days.</p> <p>PHI = 7 days</p> <p>Minimum of 7 days between applications.</p> <p>Limit to a yearly maximum application rate of 3.0 lbs ai/A (6.0 lbs product/A) in 2007.</p> <p>Limit to a yearly maximum application rate of 1.25 lbs ai/A (2.5 lbs product/A) in 2008 and 2009.</p> <p>Limit to a yearly maximum application rate of 0.75 lbs ai/A (1.5 lbs product/A) in 2010, 2011, and 2012.</p> <p>Maximum single application rate is 0.75 lbs ai/A (1.5 lbs product/A).</p> <p>Apply specified dosage per acre with aerial or ground equipment using sufficient water for good coverage. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows.</p> <p>Aerial application is permitted only through 2009; after 2009 aerial application is prohibited.</p> <p>For ground applications: A vegetative buffer zone of 60 feet must be maintained around water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.</p> <p>For aerial applications: A vegetative buffer zone of 150 feet must be maintained around water bodies or aquatic habitat, including, but not limited to lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations to enter treated area for 42 days after application of this product when applying at rates of 0.626 to 0.75 lbs ai/acre (1.252 to 1.5 lbs product/A).</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations to enter treated area for 35 days after application of this product when applying at rates of 0.51 to 0.625 lbs ai/acre (1.02 to 1.25 lbs product/A).</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations to enter treated area for 30 days after application of this product when applying at rates of 0.59 lbs ai/acre or less (1.18 lbs or less product/A).</p>

RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
Blueberries, lowbush (for use in ME only)	Blueberry maggot Fruitworms Lecanium scale Plum curculio	1 to 1.5	<p>Do not use this product on low bush blueberries after September 30, 2012.</p> <p>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 10 days.</p> <p>PHI = 10 days</p> <p>Minimum of 10 days between applications.</p> <p>Maximum single application rate is 0.75 lbs ai/A (1.5 lbs product/A).</p> <p>Limit to a yearly maximum application rate of 1.5 lbs ai/A (3.0 lbs product/A).</p> <p>Apply specified dosage per acre with ground equipment using sufficient water for good coverage.</p> <p>Aerial application is prohibited.</p> <p>A vegetative buffer zone of 60 feet must be maintained around water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations to enter treated area for 42 days after application of this product when applying at a 0.75 lbs ai/acre rate (1.5 lbs product/A).</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations to enter treated area for 35 days after application of this product when applying at a 0.625 lbs ai/acre rate (1.25 lbs product/A).</p> <p>Do not authorize any person who is not covered by the Worker Protection Standard (WPS), such as members of the general public involved in "pick-your-own", "U-pick", or similar operations to enter treated area for 30 days after application of this product when applying at a 0.50 lbs ai/acre rate (1.0 lb product/A).</p>

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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
Almonds	Peach twig borer Navel orangeworm	3 to 4	<p>Do not use this product on almonds after October 30, 2009</p> <p>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 30 days.</p> <p>PHI = 30 days</p> <p>Limit to 1 application of 2.0 lbs ai/A (4.0 lbs product/A) per year.</p> <p>Only apply this product during the months of June, July, or August. Use during dormant season is prohibited.</p> <p>Apply specified dosage per acre by ground equipment as a full coverage spray using not more than 400 gallons of finished spray per acre. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows.</p> <p>Aerial application is prohibited.</p> <p>Do not spray this product within 300 feet of water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, or commercial fish ponds in the following counties of California: Butte, Colusa, Glenn, Madera, Merced, San Joaquin, Solano, Stanislaus, Sutter, Tehama, Yolo, and Yuba.</p> <p>For applications to almonds in all other locations, do not spray within 500 feet of water bodies or aquatic habitat, including, but not limited to lakes, reservoirs, rivers, streams marshes, natural ponds, estuaries, or commercial fish ponds.</p>
Pistachios (use in CA & AZ only)	Navel orangeworm	4	<p>Do not use this product on pistachios after October 30, 2009.</p> <p>Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 21 days.</p> <p>PHI = 21 days</p> <p>Limit to 1 application of 2.0 lbs ai/ (4.0 lbs product/A) per year.</p> <p>Only apply this product during the months of June through October.</p> <p>Apply specified dosage per acre by ground equipment as a full coverage spray using not more than 400 gallons of finished spray per acre. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows.</p> <p>Aerial application is prohibited.</p> <p>Use during dormant season is prohibited.</p> <p>Do not spray this product within 500 feet of water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds,, estuaries, or commercial fish ponds</p>

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RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
Walnuts	Codling moth Filbertworm Navel orangeworm Walnut husk fly Red-humped caterpillar	3 to 4	Do not use this product on walnuts after October 30, 2009. Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 30 days. PHI = 30 days Limit to 1 application of 2.0 lbs ai/A (4.0 lbs product/A) per year. Apply specified dosage per acre by ground equipment as a full coverage spray using not more than 400 gallons of finished spray per acre. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Aerial application is prohibited. Only apply this product during the months of June, July, or August. Use during dormant season is prohibited. Do not spray this product within 500 feet of water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, or commercial fish ponds.

RECOMMENDED APPLICATIONS			
CROP	INSECT	LB GUTHION SOLUPAK/A	REMARKS
Parsley, Root and Moss-curled (use in NJ & OH only)	For use on carrot root weevil [<i>Listronotus oregonensis</i> (Leconte)] only.	1	Do not use this product on parsley after September 30, 2012. Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 30 days. PHI = 7 days Limit to a yearly maximum application rate of 1.5 lbs ai/A (3.0 lbs product/A) in 2007. Limit to a yearly maximum rate of 1.25 lbs ai/A (2.5 lbs product/A) in 2008, 2009, and 2010. Limit to a yearly maximum application rate of 1.0 lbs ai/A (2.0 lbs product/A) in 2011 and 2012. Maximum single application rate is 0.5 lbs ai/A. (1.0 lb product/A) Apply in sufficient water to achieve uniform coverage. Do not apply to the point of runoff. Aerial application is prohibited. A vegetative buffer zone of 60 feet must be maintained around water bodies or aquatic habitat, including, but not limited to, lakes, reservoirs, rivers, streams, marshes, natural ponds, estuaries, and commercial fish ponds.

* 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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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.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: 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 freezing (32° F). Protect from heat. Keep away from open flame. Do not heat. Exposure to moisture or excessive handling of water-soluble packets may cause breakage. Store packets 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 below. In spill or leak incidents, keep unauthorized people away.

PESTICIDE 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:

Nonrefillable Container (flexible-bag-all weights): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid-fifty lbs. or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Nonrefillable Container (rigid-greater than fifty lbs.): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Refillable Container: Refillable container. Refill this container with azinphos-methyl only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL INFOTRAC AT 1-800-535-5053.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

Guthion® is a registered trademark of Makhteshim Agan of North America.

Guthion Solupak (66222-162) (EPA app 02-05-07)(notif to EPA 08-28-08)

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LABELING FOR ONE POUND PACKET is as follows:

Guthion Solupak

Contains 50% Azinphos Methyl
EPA Reg. No. 66222-162

Keep Out Of Reach Of Children

DANGER



POISON

(See Outer Package for Complete Use and Handling
Directions and Precautions Including Antidote Statement)

Net Wt. One Pound