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OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

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

2/17/2011



FEB 1 7 2011

Dr. Matthew Brooks Sulphur Mills c/o Ag Chem Consulting 12208 Quinque Lane Clifton, VA 20124

Subject: Alternate Brand Name

Dear Dr. Brooks:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated January 1, 2011 for:

EPA Reg. No. 70905-3

Pronto 70 WG Insecticide (Alternate Name: "HotShot 70 WG Insecticide

Registration Division (RD) has conducted a review of this request for applicability under PRN 98-10 and finds that the label change(s) requested falls within the scope of PR Notice 98-10. The labels have 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,

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

Please read instructions on	reverse before coi	mpleting form.	Form A	pproved.	_лв N.Q.J	15060	AND A Sxpires 2-28-
€PA		United States ntal Protectio Jashington, DC 2046			Registra ți Amendme Othe r		OPP Identifier Number
		Applicatio	n for Pesticide - Se	ction I			1 <u>. </u>
I. Company/Product Numbe Sulphur Mills/ 70905-3			2. EPA Product Ma Venus Eagle	inager		1	posed Classification
. Company/Product (Name) Sulphur Mills/Pronto 70		e	PM# 01				None Restricted
5. Name and Address of Ap	plicant <i>(Include ZI</i>	P Code)	6. Expedited Re	eveiw. 1	n accordance	⊥ e with I	FIFRA Section 3(c)(3)
Sulphur Mills c/o Ag (12208 Quinque Lane Clifton, VA 20124		ing		t is simila	ir or identica	t in con	nposition and labeling
Check if this	s is a new address	;	Product Name				
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Amendment - Explain Resubmission in resp	conse to Agency l	etter dated	Agency le	tter dated Applicati	on.		
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Ag-Chem Consulting Pesticide Science and Registration 12208 Quinque Lane, Clifton VA 20124 (703) 266-0128 <u>mwbrooks@ag-chem.com</u> (703) 266-4377 Fax

January 11, 2011

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Venus Eagle Product Manager 01 Insecticide-Rodenticide Branch Registration Division (7504P) One Potomac Yard (South Building) 2777 S. Crystal Drive Arlington, VA 22202

Subject: HotShot 70 WG Insecticide Notification of Alternate Brand Name for Pronto 70 WG Insecticide EPA Reg. No. 70905-3

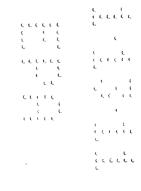
Dear Ms. Eagle,

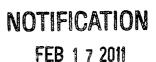
Ag-Chem Consulting, on behalf of Sulphur Mills, hereby submits the following Notification of Alternate Brand Name for the above product.

Should you have any questions or require additional information, please do not hesitate to contact me at 703-266-0128.

Very Sincerely,

Dr. Matthew Brooks Director, Ag-Chem Consulting An Authorized Representative for Sulphur Mills





MASTER LABEL

HotShot 70 WG Insecticide

Sublabel A: Agricultural Uses

A. Field Crops including cotton, peanut, potato and tobacco.

B. Vegetable and Small Fruit Crops including fruiting vegetables, globe artichoke, herbs, brassica (cole) leafy vegetables, leafy green vegetables, legume vegetables, root, tuberous and corm vegetables and strawberry.

C. Tree, Bush and Vine Crops including banana and plantain, bushberry, caneberry, citrus, coffee, grape, hop, pome fruit, pomegranate, stone fruit, tree nuts and tropical fruit.
 D. Other Crops including Christmas tree and poplar/cottonwood.

Sublabel B: Turf and Ornamental Uses

A. Turf including turfgrasses around airports, athletic fields, cemetaries, golf courses, homes and multi-family residential buildings, office buildings or office parks, parks and playgrounds, shopping centers and sod farms.

B. Trees, Ornamentals, Groundcovers and Interior Plantscapes including evergreens, flowers, foliage plants, groundcovers, interior plantscapes, non-bearing fruit and nut trees, ornamentals, shrubs, trees, vegetable plants intended for resale and state, national and private wooded forested areas.

STOP – Read the label before use KEEP OUT OF REACH OF CHILDREN CAUTION

EPA Reg. No. 70905-3

EPA Est. No.

Manufactured by: SULPHUR MILLS LIMITED 604/605, 349 Business Point, Western Express Highway Andheri (E), Mumbai – 400 069, India Website: <u>www.sulphurmills.com</u>

Net Contents:

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Sublabel A - Agricultural Uses

GROUP 4A INSECTICIDE

HotShot 70 WG Insecticide

For control of certain insects infesting various crops

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine	6
INERT INGREDIENTS:	0
TOTAL1009	6

EPA Reg. No. 70905- 3

EPA Est. No.

STOP – Read the label before use KEEP OUT OF REACH OF CHILDREN CAUTION

For 24-Hour Emergency Contact, Call CHEMTREC (1-800-424-9300)

	FIRST AID
IF SWALLOWED:	 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 IN EYES:	 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.
IF ON SKIN OR CLOTHING:	 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.
You may also contact 1-8	or label with you when calling a poison control center or doctor, or going for treatment. 00-424-9300 for emergency medical treatment information. becific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

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

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Engineering controls statements:

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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. This product is toxic to wildlife and highly toxic to aquatic invertebrates.

This chemical demonstrates the properties and characteristics associated with chemical detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Mixing and Loading Requirements

To avoid potential contamination of groundwater, the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading area and potential surface to groundwater conduits such as field sumps, uncased well heads, sinkholes, or field drains.

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 wing span or rotor diameter.

Importance of Droplet Size

An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. 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.

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Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Wind Speed Restrictions

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are great than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions

Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

Airblast (Air Assist) Specific Applications for Tree Crops and Vineyards

Release spray at lowest possible height. Do not apply more than 10 feet above the crop canopy. Airblast sprayers carry droplets into the canopy of trees/vines via a radially, or laterally directed air stream. Follow drift management practices as specified.

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

No-Spray Zone Requirements for Foliar Applications

Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries and commercial fish farm ponds.

Runoff Management

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, employ the best management practices for minimizing runoff. Consult your local Natural Resources Conservation Service for recommendations in your use area.

Endangered Species Notice

Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide State Lead Agency for information concerning endangered species in your area.

Resistance Management

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area to help delay or minimize insect resistance.

HotShot 70 WG Insecticide contains imidacloprid, a Group 4A insecticide. Insect biotypes with acquired or inherent tolerance to Group 4A product may eventually dominate the insect population if Group 4A products are

used repeatedly as the predominant method of control for targeted species. This may eventually result in partial or total loss of control of those species by HotShot 70 WG and to other Group 4A products.

The active ingredient in HotShot 70 WG is a member of the neonicotinoid chemical class. Avoid using a block of more than three consecutive applications of HotShot 70 WG and/or other Group 4A products having the same or similar mode of action. Following a neonicotinoid block of treatments, Sulphur Mills Ltd. strongly encourages the rotation to a block of applications with effective products of a different mode of action before using additional applications of neonicotinoid products. Using a block rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect pest's ability to develop resistance to this class of chemistry.

Foliar applications of HotShot 70 WG or other Group 4A products from the neonicotinoid chemical class should not be used on crops previously treated with a long-residual, soil-applied product from the neonicotinoid chemical class.

Other Group 4A neonicotinoid products used as foliar treatments include: Actara, Assail, Calypso, Centric, Clutch, Couraze, Gallant, Impulse, Intruder, Leverage, Nuprid, Pasada, Provado, Trimax Pro and Venom.

Other Group 4A neonicotinoid products uses as soil/seed treatment include: Admire Pro, Advise, Alias, Belay, Couraze, Cruiser, Gaucho, Macho, Macho Max, Nuprid, Platinum, Venom, and Widow.

Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at *http://irac-online.org*.

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, 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 Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into 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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

AGRICULTURAL USES APPLICATION DIRECTIONS

Do Not Apply HotShot 70 WG in Enclosed Structures Such As Greenhouses or Planthouses.

Apply HotShot 70 WG as directed or broadcast foliar spray. Thorough coverage of foliage is necessary without runoff for optimum insecticidal efficacy. Use adequate spray volumes, properly calibrated application equipment and spray adjuvant if necessary to obtain thorough coverage. Failure to provide adequate coverage and retention of HotShot 70 WG on leaves and fruit may result in loss of insect control or delay in onset of activity. HotShot 70 WG may be applied with properly calibrated ground or aerial application equipment. Minimum recommended spray volumes unless otherwise specified on crop specific. Recommended application volumes are 10 gallons/Acre by ground application and 5 gallons/Acre through aerial equipment. HotShot 70 WG may also be applied by overhead chemigation (see additional CHEMIGATION DIRECTIONS FOR USE section below) if allowed in crop specific recommended application section.

HotShot 70 WG use on crops grown for production of true seed intended for private commercial planting is generally not recommended but may be allowed under State specific supplemental labeling. As with any insecticide, care should be taken to minimize exposure of HotShot 70 WG to honey bees and other pollinators. Use of HotShot 70 WG on crops requiring bee pollination should be avoided during bloom and a minimum of 10 days prior to bloom. Additional information on HotShot 70 WG uses for these crops and other questions may be obtained from the Cooperative Extension Service, PCAs, consultants or local Sulphur Mills Limited representatives.

This product may not be effective in controlling established insect infestations or heavy insect populations. Monitor fields for insect presence and level of infestations before making a second application to ensure control. Tank mixes of this product with other registered insecticides will improve knockdown of listed pests and control of other pests.

Do not apply more than 0.5 lb active ingredient per acre, per crop season, regardless of formulation or method of application, unless specified within a crop-specific Recommended Application section for a given crop. Additional product use information may be obtained from calling a representative of Sulphur Mills Limited.

MIXING INSTRUCTIONS

To prepare the application mixture, add a portion of the required amount of water to the spray tank and with agitation add HotShot 70 WG. Complete filling tank with balance of water needed. Maintain sufficient agitation during both mixing and application. HotShot 70 WG may also be sued with other pesticides and/or fertilizer solutions. Please see Compatibility Note below. When tank mixtures of HotShot 70 WG and other pesticides are involved, prepare the tank mixture as recommended above and follow suggested Mixing Order below.

Mixing Order

When pesticide mixtures are needed, add HotShot 70 WG and other wettable powders or wettable granules first, flowable (suspension concentrate) products second, and emulsifiable concentrates last. Ensure good agitation as each component is added. Do not add an additional component until the previous is thoroughly mixed. If a fertilizer solution is added, a fertilizer/pesticide compatibility agent may be needed. Maintain constant agitation during both mixing and application to ensure uniformity of spray mixture.

Compatibility Note

Test compatibility of the intended tank mixture before adding HotShot 70 WG to the spray or mix tank. Add proportionate amounts of each ingredient in the appropriate order, to a pint or quart jar, cap, shake for 5 minutes, and let set for 5 minutes. Poor mixing or formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used. For further information, contact your local Sulphur Mills Limited representative.

CHEMIGATION DIRECTIONS FOR USE

Refer to APPLICATION DIRECTIONS FOR USE section before proceeding with chemigation application.

Types of Irrigation Systems

Chemigation applications of HotShot 70 WG may be made to crops through overhead sprinkler chemigation systems if specified in crop-specific Recommended Application sections. Do not apply HotShot 70 WG through any other type of irrigation system.

Water Volume

HotShot 70 WG chemigation applications should be made as concentrated as possible. Retention of HotShot 70 WG on target site of insect infestation is necessary for optimum activity. Chemigation of HotShot 70 WG in water volumes exceeding 0.1 inch/Acre is not recommended.

Uniform 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 non-uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. 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 operation, 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 the 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 where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Using Water from 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 serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water system must contain a functional, reduced pressure zone (RPZ) backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow 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. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

ROTATIONAL CROPS *

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application. For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval is required.

Immediate Plant-back

All crops on this label plus the following crops not on this label: barley, canola, corn (field, sweet and pop), rapeseed, sorghum, soybean, sugarbeet, and wheat.

30-Day Plant-back

Cereals (including buckwheat, millet, oats, rice, rye, and triticale), safflower

10-Month Plant-back

Onion and bulb vegetables

12-Month Plant-back

All other crops

*Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

FIELD CROPS

Recommended Applications – HotShot 70 WG Insecticide

Apply specified rate per acre as a broadcast or directed foliar spray to infested areas as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimum control. A spray adjuvant may be used to improve coverage. HotShot 70 WG may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. HotShot 70 WG may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

COTTON

Pests Controlled	Rate Ounces/Acre
Cotton aphid	
Cotton fleahopper	
Bandedwinged whitefly	
Plant bugs (excludes Lygus hesperus)	0.7 - 1.4
Green stink bug	
Southern green stink bug	
Bollworm/Budworm (ovicidal effect)	
Pests Suppressed	
Lygus bug (Lygus hesperus)	1.1 – 1.4
Whiteflies (other than bandedwinged whitefly)	1.1 - 1.4
Restrictions:	
Pre-Harvest Interval (PHI): 14 days	
Minimum interval between application: 7 days	
Maximum HotShot 70 WG allowed per crop season: 7 ounces	/Acre (0.31 lb ai/A)
Do not graze treated fields after any application of HotShot 70	WG.
Applications:	
- HotShot 70 WG may be applied through properly calibrated	ground, aerial or chemigation application equipment.
Tank Mix Appl	ications

Pests Controlled (in addition to pests listed above)	HotShot 70 WG Rate Ounces/Acre	Bidrin [®] 8* Rate Fluid ounces/Acre
For early season control of: Thrips	0.7 – 1.1	1.6 - 3.2
For mid to late season control of: Plant bugs Stink bugs (including Brown stink bug) Grasshoppers Saltmarsh caterpillar	0.7 – 1.1	4.0 - 8.0
Cotton leafperforator		

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Restrictions: (in addition to Restrictions listed above): *Refer to the Bidrin[®] 8 product label for specific use recommendations; observe all restrictions and precautions that appear on the label.

PEANUT*

Pests Controlled	Rate Ounces/Acre
Aphids	
Leafhoppers	1.0
Whiteflies	
Restrictions:	
Pre-Harvest Interval (PHI): 14 days	
Minimum interval between application: 5 days	
Maximum HotShot 70 WG allowed per crop season: 3 ou	Inces/Acre (0.13 lb ai/A)
*Use not permitted in California unless otherwise directed	by supplemental labeling.

ΡΟΤΑΤΟ

Pests Controlled	Rate Ounces/Acre
Aphids	
Colorado potato beetle	
Flea beetles	1.1
Leafhoppers	
Psyllids	
Restrictions:	
Pre-Harvest Interval (PHI): 7 days	
Minimum interval between application: 7 days	
Maximum HotShot 70 WG allowed per crop season: 4.6 o	unces/Acre (0.2 lb ai/A)

TOBACCO

Pests Controlled	Rate Ounces/Acre	
Aphids	0.6 - 1.2	
Flea beetles	1.2	
Japanese beetle	1.2	
Restrictions: Pre-Harvest Interval (PHI): 14 days		
Minimum interval between application: 7 days		
Maximum HotShot 70 WG allowed per crop season: 6.4	ounces/Acre (0.28 lb ai/A)	

VEGETABLE AND SMALL FRUIT CROPS

Recommended Applications – HotShot 70 WG Insecticide

Apply specified rate per acre as a broadcast or directed foliar spray to infested areas as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimum control. A spray adjuvant may be used to improve coverage. HotShot 70 WG may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. HotShot 70 WG may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

Crops contained within certain crop groups recognized by EPA are subject to change. Refer to EPA website (www.epa.gov) for latest crop groups.

FRUITING VEGETABLES*

Crops of Crop Group 8 plus Okra Including: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento and sweet), Tomato, Pepinos, Tomatillo

Pests Controlled	Rate Ounces/Acre
Aphids	Ounces/Acre
-	
Colorado potato beetle	1.1 - 1.8
Leafhoppers	
Whiteflies	1.0
Pepper weevil (Pepper only)	1.8
Restrictions:	
Pre-Harvest Interval (PHI): 0 days	
Minimum interval between application: 5 days	
Maximum HotShot 70 WG allowed per crop season: 5.5	ounces/Acre (0.24 lb ai/A)
Applications: For pepper weevil, apply specified dosage of HotShot 70 to a damaging population becoming established. Good co control. Applications of HotShot 70 WG must be incorpo effective products from multiple classes of chemistry and windowed approach. For additional information, please c Extension Specialist or crop advisor.	overage of foliage and fruit is necessary for optimum rated into a full-season program, where alternations of different modes of action are utilized in a blocked or
When targeting adult whiteflies, use higher rates.	
*Not for use on crops grown for seed unless allowed by st	ate-specific supplemental labeling.

GLOBE ARTICHOKE

Pests Controlled	Rate Ounces/Acre
Aphids Leafhoppers	1.1 – 2.9
Restrictions: Pre-Harvest Interval (PHI): 7 days Minimum interval between application: 14 days Maximum HotShot 70 WG allowed per crop season: 11.5	ounces/Acre (0.5 lb ai/A)

HERBS*

Crops of Crop Subgroup 19A including: Angelica, Balm (lemon balm), Basil (fresh and dried), Borage, Burnet, Chamomile, Catnip, Chervil (dried), Chinese chive, Chive, Clary, Coriander (cilantro or Chinese parsley leaves), Costmary, Culantro (leaf), Curry (leaf), Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram, Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Savory (summer and winter), Sweet bay (bay leaf), Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood.

Pests Controlled	Rate Ounces/Acre	
Aphids		
Flea beetles	1.0	
Leafhoppers	1.0	
Whiteflies		
Restrictions:		
Pre-Harvest Interval (PHI): 7 days		
Minimum interval between application: 5 days		

Maximum HotShot 70 WG allowed per crop season: 3.0 ounces/Acre (0.13 lb ai/A)

Applications:

HotShot 70 WG may be applied through properly calibrated ground and aerial application equipment. Thorough coverage with direct contact of the spray material to the target pests is required for optimum control. The addition of an organosilicone-based spray adjuvant at a rate not to exceed the adjuvant manufacturer's recommended use rate may improve coverage and control.

Note:

Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety, Sulphur Mills Limited strongly recommends that only small areas or numbers of plants of each be treated and evaluated prior to commercial use.

*Use not permitted in California unless otherwise directed by supplemental labeling.

BRASSICA (COLE) LEAFY VEGETABLES*

Crops of Crop Group 5 including: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gai lon) broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens

Pests Controlled	Rate Ounces/Acre
Aphids	
Flea beetles	1.1 – 1.8
Leafhoppers	1.1 - 1.8
Whiteflies	
Restrictions:	
Pre-Harvest Interval (PHI): 7 days	
Minimum interval between application: 5 days	
Maximum HotShot 70 WG allowed per crop season: 5.5 o	unces/Acre (0.24 lb ai/A)

Applications:

For applications made to watercress, production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following the application. Applications must be made to fully leafed-up canopies only.

*Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

LEAFY GREEN VEGETABLES*

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Crops of Crop Subgroup 4A plus Watercress including: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Chervil, Chrysanthemum (edible leaved and garland), Corn salad, Cress (garden), Cress (upland, yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Spinach [including New Zealand and vine (Malabar spinach, Indian spinach)], Watercress (Commercial production only. Applications must not be made to native cress growing in streams or other bodies of water.), Watercress (upland)

Rate Ounces/Acre
1.1 – 1.8
-

Pre-Harvest Interval (PHI): 7 days

Minimum interval between application: 5 days

Maximum HotShot 70 WG allowed per crop season: 5.5 ounces/Acre (0.24 lb ai/A)

Applications:

For applications made to watercress, production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following the application. Applications must be made to fully leafed-up canopies only.

*Nor for use on crops grown for seed unless allowed by state-specific supplemental labeling.

LEGUME VEGETABLES*

Crops of Crop Group 6 (except soybean, dry) including:

Edible Podded and Succulent Shelled Pea and Bean and Dried Shelled Pea and Bean

Bean (Lupinus spp., including grain lupin, sweet lupin, white lupin, and white sweet lupin)

Bean (*Phaseolus* spp., including field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean)

Bean (*Vigna* spp., including adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, Southern pea, urd bean, yardlong bean)

Pea: (*Pisum* spp., including dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea)

Other Beans and Peas: Broad bean (fava), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, Pigeon pea, Soybean (immature seed), Sword bean

Pests Controlled	Rate Ounces/Acre	_
Aphids		
Leafhoppers	1.0	
Whiteflies		
Restrictions:		
Pre-Harvest Interval (PHI): 7 days		
Minimum interval between application: 7 days		
Maximum HotShot 70 WG allowed per crop seasor	3.0 ounces/Acre(0.13 lb ai/A)	

ROOT, TUBEROUS AND CORM VEGETABLES¹

Crops of Crop Group 1 (except sugarbeet) plus Kava including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)², Burdock (edible)², Canna (edible, Queensland arrowroot), Carrot², Cassava (bitter and sweet)², Celeriac², Chayote (root), Chervil (turnip-rooted)², Chufa, Dasheen (taro)², Ginger, Ginseng, Horseradish, Kava^{2, 3}, Leren, Parsley (turnip-rooted), Parsnip², Radish², Oriental radish (diakon)², Rutabaga², Salsify (black)², Salsify (oyster plant), Salsify (Spanish), Skirret, Sweetpotato², Tanier (cocoyam)², Tumeric, Turnip², Yam bean (jicama, manoic pea), Yam (true)².

(For recommended applications on potato see Field Crops section)

Pests Controlled	Rate
	Ounces/Acre
Aphids	
Flea beetles	1.0
Leafhoppers	1.0
Whiteflies	
Restrictions:	
Pre-Harvest Interval (PHI): 7 days	
Minimum interval between application: 5 days	
Maximum HotShot 70 WG allowed per crop season	n: 1.0 ounces/Acre (0.044 lb ai/A) on Radish; 3.0 ounces Acre
(0.13 lb ai/A) on other crops.	
Maximum HotShot 70 WG applications per crop se	ason: 1 on Radish; 3 on other crops.
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¹ Not for use on crops grown for seed unless allowed	by state-specific supplemental labeling.
² Tops or greens from these crops may be utilized fo	r food or feed.
³ Use not permitted in California unless otherwise di	

STRAWBERRY

Pests Controlled	Rate Ounces/Acre
Aphids	
Spittlebugs	1.1
Whiteflies	
Restrictions:	
Pre-Harvest Interval (PHI): 7 days	
Minimum interval between application: 5 days	
Maximum HotShot 70 WG allowed per crop season: 3.3 o	
Do not apply during bloom or within 10 days prior to bloor	n or when bees are actively foraging.

TREE, BUSH AND VINE CROPS Applications – HotShot 70 WG Insecticide

Apply specified rate per acre as a broadcast or directed foliar spray to infested areas as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimum control. A spray adjuvant may be used to improve coverage. HotShot 70 WG may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. HotShot 70 WG may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests. Aerial application of HotShot 70 WG may result in slower activity and reduced control relative to results from ground application. For tree and vine crops, recommended application rates are based on full-size, mature trees or vines.

Crops contained within certain crop groups recognized by EPA are subject to change. Refer to EPA website (www.epa.gov) for latest crop groups.

BANANA AND PLANTAIN*

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Pests Controlled	Rate Ounces/Acre
Aphids	
Leafhoppers	2.3
Thrips	
Restrictions:	
Pre-Harvest Interval (PHI): 0 days	
Minimum interval between application: 14 c	days
Maximum HotShot 70 WG allowed per crop	season: 11.4 ounces/Acre (0.5 lb ai/A)
Applications:	

Apply specified dosage of HotShot 70 WG as a broadcast or directed spray to infested area insuring thorough coverage. HotShot 70 WG may be applied through properly calibrated ground and aerial application equipment. Aerial application of HotShot 70 WG may result in slower activity and reduced control relative to results from ground application.

Addition of an organosilicone adjuvant at a rate not to exceed 2.0 fluid ounces/100 gallons finished spray solution may improve coverage and pest control.

*Use not permitted in California unless otherwise directed by supplemental labeling.

BUSHBERRY

Crops of Crop Subgroup 13B including: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Salal

Pests Controlled	Rate Ounces/Acre
Aphids	0.9 - 1.2
Leafhoppers/Sharpshooters	0.9 - 1.2
Blueberry maggot	
Japanese beetle (adults)	1.7 – 2.3
Thrips (foliage feeding thrips only)	
Restrictions:	
Pre-Harvest Interval (PHI): 3 days	
Minimum interval between application: 7 days	
Maximum HotShot 70 WG allowed per crop season:	11.4 ounces/Acre (0.5 lb ai/A)
Maximum number of HotShot 70 WG applications pe	er crop season: 5
Applications:	
- Do not apply pre-bloom or during bloom or when b	bees are actively foraging.
- Minimum application volume (water): 20 GPA - g	ground, 5 GPA – aerial

CANEBERRY

Crops of the Caneberry Crop Subgroup 13A including:

Blackberry (*Rubus* spp. – including Andean Blackberry, Arctic blackberry, Bingleberry, Black satin berry, Boysenberry, Brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyene blackberry, Common blackberry, Coryberry, Darrowberry, Dewberry, Dirksen thomless berry, Evergreen blackberry, Himalayaberry, Hullberry, Lavacaberry, Loganberry, Lowberry, Lucretiaberry, Mammoth blackberry, Marionberry, Moras, Mures deronce, Nectarberry, Northern dewberry, Olallieberry, Oregon evergreen berry, Phenomenalberry, Rangeberry, Ravenberry, Rossberry, Shawnee blackberry, Southern dewberry, Tayberry, Youngberry, Zarzamora, and varieties and/or hybrids of these)

Raspberry (*Rubus* spp. – including Bababerry, Black raspberry, Blackcap, Caneberry, Framboise, Frambueso, Himbeere, Keriberry, Mayberry, Red raspberry, Thimbleberry, Tulameen, Yellow raspberry, and varieties and/or hybrids of these, and Wild raspberry)

	D . 4 .
Pests Controlled	Rate 4
I coto contronca	Kute

	Ounces/Acre
Aphids	
Leafhoppers	2.3
Thrips	
Restrictions:	
Pre-Harvest Interval (PHI): 3 days	
Minimum interval between application:	7 days
Maximum HotShot 70 WG allowed per	crop season: 6.9 ounces/Acre (0.3 lb ai/A)
Applications:	
- Do not apply pre-bloom or during blo	om or when bees are actively foraging.

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CITRUS

Crops of Crop Group 10 including: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Pummelo, Orange (sweet and sour), Satsuma mandarin, White sapote (Casimiroa spp.), and other cultivars and/or hybrids of these

Pests Controlled	Rate Ounces/Acre
Aphids	
Asian citrus psyllid	
Blackfly	20.57
Leafhoppers/Sharpshooters	2.9 - 5.7
Leafminers	(depending on tree size, target pest and infestation
Mealybugs	pressure)
Scales	
Whiteflies	
Pests Suppressed	
Thrips (foliage feeding thrips only)	2.9 - 5.7
Restrictions:	
Pre-Harvest Interval (PHI): 0 days	
Minimum interval between application: 10 days	
Maximum HotShot 70 WG allowed per crop seaso	on: 11.4 ounces/Acre (0.5 lb ai/A)
Applications:	
- Scales - time applications to the crawler stage.	Treat each generation.
Do not apply during bloom or within 10 days pr	ior to bloom or when bees are actively foreging

- Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

COFFEE*

Pests Controlled	Rate Ounces/Acre
Aphids Leafhoppers Whiteflies	2.3
Pests Suppressed	
Scales	2.3
Restrictions: Pre-Harvest Interval (PHI): 7 days Minimum interval between application: 7 days Maximum HotShot 70 WG allowed per crop season Do not apply during pre-bloom or during bloom or w	

Applications:

Apply specified dosage of HotShot 70 WG as a broadcast or directed spray to infested area insuring thorough coverage. HotShot 70 WG may be applied through properly calibrated ground or aerial application equipment.

Aerial application of HotShot 70 WG may result in slower activity and reduced control relative to results from ground application.

*Use not permitted in California unless otherwise directed by supplemental labeling.

GRAPE

Including: American bunch grape, Muscadine grape and Vinifera grape.

Pests Controlled	Rate Ounces/Acre
Leafhoppers/Sharpshooters Mealybugs	0.9 – 1.1
Grapeleaf Skeletonizer	1.1
Restrictions: Pre-Harvest Interval (PHI): 0 days Minimum interval between application: 14 day Maximum HotShot 70 WG allowed per crop se	•
Applications:	

HOP

Pests Controlled	Rate Ounces/Acre
Aphids	2.3
Restrictions: Pre-Harvest Interval (PHI): 28 days	
Minimum interval between application: 21 days Maximum HotShot 70 WG allowed per crop season: 6.9 o	unces/Acre (0.3 lb ai/A)

POME FRUIT

Crops of Crop Group 11 including: Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

Pests Controlled	Rate Ounces/Acre
Leafhoppers	1.3 - 2.3
Aphids (except woolly apple aphid)	
Apple maggot	2.3
Leafminers	2.5
San Jose scale	
FOR PEAR ONLY:	
Mealybugs	5.7
Pear psylla	
Restrictions:	
Dra Harvest Interval (DHI): 7 days	

Pre-Harvest Interval (PHI): 7 days Minimum interval between application: 10 days Maximum HatShat 70 WG allowed nor area season: 115 appear(Acro.)

Maximum HotShot 70 WG allowed per crop season: 11.5 ounces/Acre (0.5 lb ai/A)

Applications:

- Do not apply pre-bloom or during bloom or when bees are actively foraging.

- Applications targeting apple maggot should be combined with manufacturer's recommended rate of a sticker, such as Nu-Film 17.

POMEGRANATE*

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Pests Controlled	Rate Ounces/Acre
Aphids	
Leafhoppers/Sharpshooters	2.3
Whiteflies	
Pests Suppressed	
Scales	2.3
Restrictions: Pre-Harvest Interval (PHI): 7 days Minimum interval between application: 7 days Maximum HotShot 70 WG allowed per crop sease	on: 6.9 ounces/Acre (0.3 lb ai/A)
Applications: - Do not apply pre-bloom or during bloom or whe	en bees are actively foraging.
	te populations of white apple leafhoppers. Use the high rate for Apply this product while most leafhoppers are in the nymph stage.

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Leafminer: First generation: Apply as soon as pollination is complete and bees are removed from the orchard. For optimal control, apply as early as possible. **Second and succeeding generations:** Make application early in the adult flight against eff and early instar larvae. For continued and severe pest pressure or overlapping generations, make a second application 10 days later. One application may only result in suppression. This product will not control late instar larvae.

Mealybug: For best results be sure to thoroughly spray and cover the trunk and scaffolding limbs or other nesting sites.

Rosy apple aphid: Begin applications before leafrolling.

San Jose scale: Begin applications at the crawler stage and treat subsequent generations.

*Use not permitted in California unless otherwise directed by supplemental labeling.

STONE FRUIT

Crops of Crop Group 12 including: Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)

Pests Controlled	Rate
	Ounces/Acre
Aphids	
Green June beetle	
Japanese beetle	
Leafhoppers/Sharpshooters	1.2 – 2.3
Plant bugs	
Rose chafer	
San Jose scale	
Cherry fruit fly	1.7 – 2.3
Pests Suppressed	
Plum curculio	2.3
Stink bugs	2.5
Restrictions:	
for Apricot, Nectarine, Peach:	
Pre-Harvest Interval (PHI): 0 days	
Minimum interval between application: 7 days	
Maximum HotShot 70 WG allowed per crop season: 6.9 ou	Inces/Acre (0.3 lb ai/A)

Applications:	
-Minimum application volume (water): 50 GPA – ground; 25 GPA - aerial	
-Do not apply pre-bloom or during bloom or when bees are actively foraging.	
Notes and Restrictions for Cherries, Plums, Plumcot, Prune	
Pre-Harvest Interval (PHI): 7 days	
Minimum interval between application: 10 days	
Maximum HotShot 70 WG allowed per crop season: 11.5 ounces/Acre (0.5 lb ai/A)	
Applications:	
- Minimum application volume (water): 50 GPA – ground; 25 GPA - aerial	
- Do not apply pre-bloom or during bloom or when bees are actively foraging.	

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TREE NUTS*

Crops of Crop Group 14 including: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English)

Pests Controlled	Rate Ounces/Acre
Aphids (except Black pecan aphid)	
Leafhoppers/Sharpshooters	
Phylloxera spp. (leaf infestations)	1.0 – 2.0
Spittlebugs	
Whiteflies	
Black pecan aphid	
Mealybugs	2.3
San Jose scale	
Restrictions: Pre-Harvest Interval (PHI): 7 days Minimum interval between application: 6 days Maximum HotShot 70 WG allowed per crop season:	8.2 ounces/Acre (0.36 lb ai/A)
Applications: - Minimum application volume (water): 50 GPA – g - Do not apply pre-bloom or during bloom or when b - Applications for control of San Jose scale should be generation. Two applications on a 10- to 14-day inter - For Black pecan aphid, use the higher rate to control	ees are actively foraging. timed according to crawler stage, treating each successive val may be required to achieve control.

*Use not permitted in California unless otherwise directed by supplemental labeling.

TROPICAL FRUIT

Including: Acerola, Atemoya*, Avocado, Birida*, Black sapote, Canistel, Cherimoya*, Custard apple*, Feijoa, Jaboticaba, Guava, Llama*, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Persimmon, Pulasan, Rambutan, Sapotilla, Soursop*, Spanish lime, Star apple, Starfruit, Sugar apple*, Wax jambu

Pests Controlled	Rate Ounces/Acre	
Aphids		
Leafhoppers/Sharpshooters		
Mealybugs	2.3	
Thrips (foliage feeding thrips only)		
Whiteflies		
Pests Suppressed		

Scales	2.3	
Restrictions:		
Pre-Harvest Interval (PHI): 7 days		
Minimum interval between applications: 10 days	5	
Maximum HotShot 70 WG allowed per crop seas	ion: 11.5 ounces/Acre (0.5 lb ai/A)	
Applications:	_	
• Maximum number of HotShot 70 WG applicati		
Do not apply pre-bloom or during bloom or wh	en bees are actively foraging.	

OTHER CROPS Applications – HotShot 70 WG Insecticide

Apply specified rate per acre as a broadcast or directed foliar spray to infested areas as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimum control. A spray adjuvant may be used to improve coverage. HotShot 70 WG may not knockdown established and heavy insect populations. Two applications may be required to achieve control. Scout fields and retreat if needed. HotShot 70 WG may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests.

CHRISTMAS TREE

Pests Controlled	Rate Ounces/Acre
Aphids	
Adelgids	1.2 – 2.3
Sawflies	
Restrictions:	
Minimum interval between applications: 7 days	
Maximum HotShot 70 WG allowed per crop season: 11. Applications:	5 ounces/Acre (0.5 lb ai/A)
Gall-forming adelgids – time applications to coincide with trees. Once galls form spraying will be ineffective.	th full bud-swell or first bud-break of earliest bud-breaking

POPLAR/COTTONWOOD*

Including members of the genus Populus grown for pulp or timber

Rate inces/Acre
1.2 – 2.3
)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and 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. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If 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 now walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Sulphur Mills Limited Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Sulphur Mills Ltd. Emergency Response telephone number is ?. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

LIMITATION OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer 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 Sulphur Mills Limited. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTANT WITH APPLICABLE LAW, SULPHUR MILLS LIMITED 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 SULPHUR MILLS LIMITED IS AUTHORIZED TO MAKE ANY WARRANTIES BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. SULPHUR MILLS LIMITED 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 SULPHUR MILL'S ELECTION, THE REPLACEMENT OF PRODUCT. Admire, Calypso, Gaucho, Leverage, Provado and Trimax are registered trademarks of Bayer CropScience. Actara, Centric, Cruiser and Platinum are trademarks of a Syngenta Group Company. Assail and Intruder are registered trademarks of Nippon Soda Company, Ltd. Belay and Clutch are registered trademarks of Arvesta Corporation. Venom is a registered trademark of Valent USA Corporation. Bidrin is a registered trademark of AMVAC Chemical Corporation. Alias and Pasada are trademarks of Makhteshim Agan of North America, Inc. Couraze is a trademark of Cheminova, Inc. Macho and Impulse are trademarks of Albaugh, Inc. Advise and Gallant are trademarks of Agrilliance, LLC Widow is a trademark of Loveland Products, Inc. Nuprid is a trademark of NuFarm America, Inc. 24/37

Manufactured by: SULPHUR MILLS LIMITED 604/605, 349 Business Point, Western Express Highway Andheri (E), Mumbai – 400 069, India Website: <u>www.sulphurmills.com</u>

[label version: 10-14-09)

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Sublabel B - Turf and Ornamental Uses

GROUP 4A INSECTICIDE

HotShot 70 WG Insecticide

For control of certain insects infesting turf, trees, ornamentals, groundcovers and interior plantscapes

ACTIVE INGREDIENT: Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-ir	midazolidinimine70%
INERT INGREDIENTS:	
EPA Reg. No. 70905-3	EPA Est. No.

STOP – Read the label before use KEEP OUT OF REACH OF CHILDREN CAUTION

For 24-Hour Emergency Contact, Call CHEMTREC (1-800-424-9300)

FIRST AID	
IF SWALLOWED:	 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 IN EYES:	 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.
IF ON SKIN OR CLOTHING:	 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.
You may also contact 1-80	or label with you when calling a poison control center or doctor, or going for treatment. 10-424-9300 for emergency medical treatment information. ecific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing.

Applicators and other handlers must wear:

• Long-sleeved shirt and long pants

• Chemical-resistant gloves made of any waterproof material such as, barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton

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• Shoes plus socks

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

Engineering controls statements:

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife and highly toxic to aquatic invertebrates. Do not apply directly to water, areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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.

This chemical demonstrates the properties and characteristics associated with chemical detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Mixing and Loading Requirements

To avoid potential contamination of groundwater, the use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used, maintain a minimum distance of 25 feet between mixing and loading area and potential surface to groundwater conduits such as field sumps, uncased well heads, sinkholes, or field drains.

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 wing span or rotor diameter.

Importance of Droplet Size

An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. 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.

Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Wind Speed Restrictions

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are great than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions

Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

Airblast (Air Assist) Specific Applications for Tree Crops and Vineyards

Release spray at lowest possible height. Do not apply more than 10 feet above the crop canopy. Airblast sprayers carry droplets into the canopy of trees/vines via a radially, or laterally directed air stream. The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

No-Spray Zone Requirements for Foliar Applications

Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries and commercial fish farm ponds.

Runoff Management

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, Best Management Practices for minimizing runoff should be employed. Consult your local Natural Resources Conservation Service for recommendations in your use area.

Endangered Species Notice

Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin, County Extension Agent, or Pesticide State Lead Agency for information concerning endangered species in your area.

Resistance Management

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Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area to help delay or minimize insect resistance.

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HotShot 70 WG Insecticide contains imidacloprid, a Group 4A insecticide. Insect biotypes with acquired or inherent tolerance to Group 4A product may eventually dominate the insect population if Group 4A products are used repeatedly as the predominant method of control for targeted species. This may eventually result in partial or total loss of control of those species by HotShot 70 WG and to other Group 4A products.

The active ingredient in HotShot 70 WG is a member of the neonicotinoid chemical class. Avoid using a block of more than three consecutive applications of HotShot 70 WG and/or other Group 4A products having the same or similar mode of action. Following a neonicotinoid block of treatments, Sulphur Mills Ltd. strongly encourages the rotation to a block of applications with effective products of a different mode of action before using additional applications of neonicotinoid products. Using a block rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect pest's ability to develop resistance to this class of chemistry.

Foliar applications of HotShot 70 WG or other Group 4A products from the neonicotinoid chemical class should not be used on crops previously treated with a long-residual, soil-applied product from the neonicotinoid chemical class.

Other Group 4A neonicotinoid products used as foliar treatments include: Actara, Assail, Calypso, Centric, Clutch, Couraze, Gallant, Impulse, Intruder, Leverage, Nuprid, Pasada, Provado, Trimax Pro and Venom.

Other Group 4A neonicotinoid products uses as soil/seed treatment include: Admire Pro, Advise, Alias, Belay, Couraze, Cruiser, Gaucho, Macho, Macho Max, Nuprid, Platinum, Venom, and Widow.

Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at *http://irac-online.org*.

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, 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 Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into 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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses. Keep children and pets off treated areas until dry.

TURF AND ORNAMENTALS USES DIRECTIONS FOR USE

PREPARATION OF SPRAY MIXES

This product is a wettable granule formulation that contains imidacloprid, a systemic insecticide, and readily dissolves in water.

How to Prepare Spray Solutions

1. Fill the spray tank with 1/4 to 1/3 of the required amount of clear water and begin agitation.

2. Add the specified amount of this product. Allow this product to be mixed thoroughly to provide a uniform spray solution.

3. Fill the tank with the remaining water needed. Maintain sufficient agitation during mixing and application.

If this product is to be tank-mixed with other pesticides and/or fertilizer solutions, check the compatibility (refer to the Tank Mix Compatibility section below) before adding to the spray tank. Use the following order of addition: 1) HotShot 70 WG wettable powder; 2) other wettable powders or wettable granules; 3) flowables or suspension concentrates; 4) emulsifiable concentrates. Run agitator as each component is added. Add the next component only after the previous one is thoroughly mixed. Then add the remaining amount of water to the spray tank. To ensure a uniform spray mixture, maintain constant agitation during both mixing and application.

Tank Mix Compatibility

This product has been found to be compatible with commonly used liquid fertilizers, fungicides and insecticides. Before preparing tank mixtures with this product, especially if compatibility is not known, carry out the following small jar test using the desired tank mix partners.

1. Add the proportionate amount of each component in the appropriate order to a pint or a quart jar.

2. Replace the cap, shake for 5 minutes, and allow the mixture to settle for 5 minutes.

3. Observe the jar for signs indicating an incompatible mixture. If the contents can be re-mixed by shaking and readily re-suspends, it is considered compatible. If the mixture separates out, foams, or forms a gel or lumps, then the mixture is not compatible.

Restrictions

1. Do NOT apply through any type of irrigation system.

- 2. Keep children and pets off treated areas until dry.
- 3. Do not allow livestock to graze in treated areas or use clippings from treated areas for feed or forage.
- 4. Do not allow runoff of irrigation water.
- 5. Do not allow puddling of irrigation water.

Rotation Crops: Crops which are listed on imidacloprid labels or crops that have existing tolerances for imidacloprid may be planted in treated areas as soon as practical after the last imidacloprid application. Crops that are not found on an imidacloprid label, or crops that do not have existing tolerances for imidacloprid, may not be planted in treated areas for 12-months after the last application. Note that if cover crops are planted any time after an application of this product for soil building or erosion control those crops may not be grazed or harvested for food or feed.

This product will control or suppress soil-inhabiting pests in lawns or grassy areas in residential and non-residential areas and sod farms (refer to table below for sites). Best control is obtained when applications are made before or during the egg laying period. Irrigation is required after application to ensure residues of this product are moved through the thatch and into the soil layer. Refer to the table below for additional application instructions. Additional information on when to apply can be obtained from your local Agricultural Experiment Station, State Extension Turf Specialist, or Sulphur Mills Limited representative.

Turfgrasses around airports, athletic fields, cemeteries, golf courses, homes and multi-family residential buildings, office buildings or office parks, parks and playgrounds, shopping centers, and sod farms

Pests Controlled	Number of Teaspoons of Product to Treat 1,000 Sq. Ft. (Ounces/Acre)
Larvae of: Annual bluegrass weevil Asiatic garden beetle Billbugs Black turfgrass ataenius Cutworms (suppression only) European Chafer European Crane Fly Green June beetle Japanese beetle Northern masked chafer Oriental beetle <i>Phyllophaga</i> spp. Southern masked chafer	1.0 - 2.0 tsp. (5.8 - 9.2 ounces/acre) OR 1.25 - 2.0 tsp. (7.0 - 9.2 ounces/acre)
Chinchbugs (suppression only) Mole Crickets	2.0 tsp. (9.2 ounces/acre)

Restrictions:

Do not apply more than 9.2 oz (0.4 lb of active ingredient) per acre per year. Do not apply through any irrigation system.

Applications:

Apply this product in sufficient water to ensure the turf receives an even uniform distribution of spray. Accurately calibrated equipment normally used for soil application of insecticides must be used and calibration must be checked often to ensure equipment works properly. Equipment that produces uniform, coarse droplet sprays with a low pressure setting will help to eliminate drift to non-target sites.

In order for this product to be adequately distributed, do not apply the product to waterlogged grassy areas or to water-saturated soils.

Rainfall or irrigation must occur within 24 hours of application to move this product vertically through the thatch and into the soil.

Wait until after sufficient rainfall or irrigation has occurred to mow the grass.

Annual Bluegrass weevil, Billbugs, European Crane Fly, and Grubs: For best results make applications before egg hatch.

Chinchbugs: Make applications before hatching of first instar nymphs.

Mole Crickets: Make applications before or during the peak egg hatching period. This product may be applied with a remedial insecticide when adults or large nymphs are present and actively tunneling.

Equivalents: 3 level teaspoons = 1 level tablespoon

1 level teaspoon = 3.4 grams of this product

TREES, ORNAMENTALS, GROUNDCOVERS AND INTERIOR PLANTSCAPES

This product may be applied by broadcast or foliar application to evergreens, flowers, foliage plants, groundcovers, interior plantscapes, non-bearing fruit and nut trees, ornamentals, shrubs, trees, vegetable plants intended for resale, and state, national, and private wooded forested areas (refer to table below for sites) to control or suppress insects. This product is a systemic insecticide that is absorbed by the roots and moves upward into the plant. For this product to control insects, it must come in contact with growing parts of the plant. Plant absorption of this product may be increased in some cases if it is applied with a fertilizer that contains nitrogen. Plants absorb this product from either foliar or soil applications. Refer to the table below for further instructions.

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Woody Perennials: Protection in woody perennials is slower than in herbaceous species. Expect a delay of 2 or more weeks with longer delays for larger plants. Because of this, make applications to woody perennials well in advance of expected insect activity.

Bark Media: This product treatments to media with 30-50% or more bark content may confer a shorter period of protection.

Trees and Shrubs, Evergreens, Flowers, Ornamentals, Groundcovers, and Interior Plantscapes in and around residential, industrial, and commercial buildings and state, national, and private wooded and forested areas

Pests Controlled	Number of Teaspoons of Product to Treat
	1,000 Sq. Ft. (Ounces/Acre)
Adelgids	
Aphids	Foliar application:
Japanese beetle (adult)	0.125 tsp. in 2.5 gal. water
Lacebugs	
Leaf beetles (including elm and viburnum leaf beetles)	0.25 tsp. in 5 gal. water
Leafhoppers (including glassy-winged sharpshooter)	0.5 tsp. in 10 gal. water
Leafminers	1.25 tsp. in 25 gal. water
Mealybugs	2.5 tsp. in 50 gal. water
Sawfly larvae	5 tsp. in 100 gal. water
Thrips (suppression only)	
Whiteflies	
White grub larvae (including Asiatic garden beetle,	Broadcast application:
chafers, Phyllophaga spp., Japanese beetle larvae, and	1.25 - 2.0 level teaspoons per 1,000 sq. ft.
Oriental beetle)	(7.0 - 9.2 ounces/acre)
Restrictions:	
Outdoor ornamentals: Do not apply by broadcast applic	ation more than 9.2 oz (0.4 lb active ingredient) per acre
per year.	
Applications:	
Foliar Application: Apply this product in a sufficient vol	
applications will provide systemic activity against target p	ests.
If plants (such as holly, pine or ivy) have foliage that is dif	ficult to wet, Sulphur Mills Limited recommends this
product be applied with a spreader/sticker.	
Time applications to occur before heavy pest populations a	arise; make repeat applications as necessary.
Broadcast Application: Mix the specified amount of this	
the treatment area. Apply in a minimum of 2 gallons of w	ater per 1,000 sq. ft. After application, irrigate the treated
areas to incorporate this product into the upper soil.	
Equivalents: 3 level teaspoons = 1 level tablespoon	
1 level teaspoon = 3.4 grams of this product	

national, and private wooded and forested areas **Pests Controlled** Number of Teaspoons of Product to Treat 1,000 Sq. Ft. (Ounces/Acre) Adelgids Aphids Armored Scale (suppression only) Black vine weevil larvae Emerald Ash Borer Eucalyptus Longhorned Borers Flatheaded Borers (including bronze birch and alder Soil Injection and Soil Drench: borers) 0.25 - 0.5 level teaspoons per inch Japanese Beetles (adults) of trunk diameter (DBH) Lacebugs Leaf Beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) or Leafminers Mealybugs 1-2 oz per 30 cumulative inches Pine Tip Moth larvae of trunk diameter (DBH) Psyllids **Royal Palm Bugs** Sawfly larvae Soft Scales Thrips (suppression only) White grub larvae Whiteflies **Restrictions:** Do not apply this product by soil injection in Nassau or Suffolk Counties in the state of New York. Do not apply more than 9.2 oz (0.4 lb of active ingredient) per acre per year. Applications Soil Injection: Use at least 4 holes per tree. Grid System: Space injection holes on 2.5 ft. centers that extend to the drip line of the tree. **Circle System:** Evenly space injection holes in circles from the drip line in toward the trunk. More than one circle may be needed depending on tree size. Basal System: Place injection holes evenly around the base of the tree trunk that extends only 6 to 12 inches from the base. Prepare this product in a sufficient volume of water so an equal amount of solution is injected into each hole using a low pressure. Use enough solution so that it reaches the root zone. Irrigation or rainfall for 7-10 days after application will provide optimum control.

Trees in and around residential, industrial, and commercial buildings. Interior plantscapes and state,

Soil Drench: Before application, be sure there are no physical barriers (such as plastic tarp) present that may prevent the solution from reaching the root zone. Apply in a minimum of 10 gallons of water per 1,000 sq. ft. Apply the spray solution uniformly around the base of the tree ensuring the drench is directed at the root zone.

Borers: If trees are heavily infested, an application of this product may not prevent the loss of the trees from existing pest damage and tree stress.

Equivalents: 3 level teaspoons = 1 level tablespoon llevel teaspoon = 3.4 grams of this product Shrubs in and around residential, industrial, and commercial buildings and state, national, and private wooded areas

Pests Controlled	Number of Teaspoons of Product to Treat 1,000 Sq. Ft. (Ounces/Acre)
Adelgids	
Aphids	
Armored Scale (suppression only)	
Black vine weevil larvae	
Emerald Ash Borer	
Eucalyptus Longhorned Borers	
Flatheaded Borers (including bronze birch and alder	Sail Injection and Sail Drench.
borers)	Soil Injection and Soil Drench:
Japanese Beetles (adults)	0.25 - 0.5 level teaspoons per
Lacebugs	foot of shrub height
Leaf Beetles (including elm and viburnum leaf beetles)	
Leafhoppers (including glassy-winged sharpshooter)	or
Leafminers	
Mealybugs	1-2 oz per 30 cumulative feet
Pine Tip Moth larvae	-
Psyllids	of shrub height
Royal Palm Bugs	
Sawfly larvae	
Soft Scales	
Thrips (suppression only)	
White grub larvae	
Whiteflies	
Restrictions:	
Do not apply this product by soil injection in Nassau or Suffe	olk Counties in the state of New York.
Do not apply more than 9.2 oz (0.4 lb of active ingredient) pe	
Applications:	
Soil Injection: Use at least 4 holes per shrub.	
Prepare this product in a sufficient volume of water so an equ	al amount of solution is injected into each hole using a
low pressure. Use enough solution so that it reaches the root	

7-10 days after application will provide optimum control.

Soil Drench: Before application, be sure there are no physical barriers (such as plastic tarp) present that may prevent the solution from reaching the root zone. Apply in a minimum of 10 gallons of water per 1,000 sq. ft. Apply the spray solution uniformly around the base of the tree ensuring the drench is directed at the root zone.

Equivalents: 3 level teaspoons = 1 level tablespoon 1 level teaspoon = 3.4 grams of this product

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Flowers and Ground covers in and around residential, industrial, and commercial buildings and state, national, and private wooded areas

Pests Controlled	Number of Teaspoons of Product to Treat 1,000 Sq. Ft. (Ounces/Acre)
Adelgids Aphids Armored Scale (suppression only) Black vine weevil larvae Emerald Ash Borer Eucalyptus Longhorned Borers Flatheaded Borers (including bronze birch and alder borers) Japanese Beetles (adults) Lacebugs Leaf Beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Leafminers Mealybugs Pine Tip Moth larvae Psyllids Royal Palm Bugs Sawfly larvae Soft Scales Thrips (suppression only) White grub larvae Whiteflies	Broadcast application: 1.25 – 2.0 level teaspoons per 1,000 sq. ft. (7.0 – 9.2 ounces/acre)
Restrictions: Do not apply more than 9.2 oz (0.4 lb of active ingredient) p	er acre per year.
Applications: Applications Prior to Planting Plants or to Established P incorporated into the soil. Irrigation to established plants aft Equivalents: 3 level teaspoons = 1 level tablespoon 1 level teaspoon = 3.4 grams of this product	

To Manage Ants in the Ornamentals listed above

Pests Controlled	Number of Teaspoons of Product to Treat 1,000 Sq. Ft. (Ounces/Acre)
Aphids Scale Mealy Bugs Other Sucking Insects	See above
Applications:	

When this product is used to control these insects, ants are also controlled by limiting the honeydew available as a food source for the ants. This product may be used as a supplemental to other commonly used methods (bait traps, residual sprays, etc.) that help eliminate unwanted ants in ornamentals.

Equivalents: 3 level teaspoons = 1 level tablespoon 1 level teaspoon = 3.4 grams of this product

Pome Fruit in and around Residential Areas including: apple, crabapple, loquat, mayhaw, pear (including Oriental pear), quince

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Oriental pear), quince	II D-4
Pests Controlled	Use Rate
Aphids (except Wooly apple aphid)	
Leafhoppers (including glassy-winged sharpshooter)	0.5 oz per 100 gal.
Leafminer	(equivalent to 2 oz product per acre)
Mealybugs	
San Jose Scale	
Restrictions:	
California: Do not apply this product to control mealybu	gs and San Jose Scale on pears.
Wait at least 10 days in between applications.	
Do not apply more than 2.1 oz per acre per application	
Make only 5 applications per year.	
Harvest fruit 7 days or longer after the last application.	
Applications: Foliar Application: Apply as needed after petal-fall. The dilute spray per acre for large trees; therefore, adjust the a amount of foliage present.	the use rate per acre is based on a standard of 400 gallons of mount of this product depending on the tree size and
Rosy Apple Aphid: Apply prior to leaf rolling. Leafhopper: For late season (preharvest) control, apply Leafminer: First generation – Apply as soon as pollina For optimal control, apply as early as possible. Second a the adult fight against eff and early instar larvae. For con make a second application 10 days later. One application control late instar larvae. Mealybug: For best results, be sure to thoroughly spray s sites. San Jose Scale: Time applications to the crawler stage as pest in pears in the state of California.	tion is complete and bees are removed from the orchard. nd succeeding generations - Make applications early in tinued and severe pest pressure or overlapping generations, may only result in suppression. This product will not and cover the trunk and scaffolding limbs or other nesting
Equivalents: 3 level teaspoons = 1 level tablespoon 1 level teaspoon = 3.4 grams of this product	

Pecans in and around Residential Areas

Pests Controlled	Use Rate
Yellow pecan aphid Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera	0.5 oz per 100 gal. (equivalent to 2 oz product per acre)
Restrictions: Do not apply in the state of California unless otherwise di Vait at least 10 days in between applications. Make only 3 applications per year. Do not apply more than 6.3 oz of this product per acre pe	
	te spray per acre for large trees; therefore, adjust the ount of foliage present. Adequate control may be achieved st results, thorough and uniform spray coverage of foliage

Equivalents: 3 level teaspoons = 1 level tablespoon 1 level teaspoon = 3.4 grams of this product

Ornamental Grapes in and Around Industrial and Commercial Buildings, and Residential Areas

Pests Controlled	Use Rate
Leafhoppers (including glassy-winged sharpshooter)	0.5 oz per 100 gal.
Mealybugs	(equivalent to 2 oz product per acre)
Restrictions:	
Wait at least 14 days in between applications.	
Do not apply more than 2 oz of this product per acre per year.	
Fruit may be harvested on the day of the last application.	
Applications:	
Apply as a foliar spray using 200 gallons of water per acre.	
Equivalents: 3 level teaspoons = 1 level tablespoon	

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and 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. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If 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 now walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away. You may contact the Sulphur Mills Limited Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Sulphur Mills Ltd. Emergency Response telephone number is ?. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

LIMITATION OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

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