Supplemental Label





EPA Reg. No. 59639-95

KNACK® INSECT GROWTH REGULATOR FOR USE ON BANANA AND PLANTAIN; BERRIES; BULB VEGETABLES; LEGUME VEGETABLES (SUCCULENT OR DRIED); PAWPAW; PINEAPPLE; POMGRANATE AND ROOT AND TUBER VEGETABLES (Except California and New York)

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR *KNACK* INSECT GROWTH REGULATOR BEFORE APPLYING. USE OF *KNACK* INSECT GROWTH REGULATOR ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR *KNACK* INSECT GROWTH REGULATOR.

BANANA AND PLANTAIN

GENERAL: *Knack* Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. *Knack* has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since *Knack* is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Knack does exhibit translaminar movement which means that Knack applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	13 to 16 fl oz	Apply with air or ground equipment in adequate water for uniform coverage: By air: 3 to 10 gals/A By ground: 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Only whole fields should be treated.

Knack may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

- Do not apply within 14 days of harvest.
- Do not make more than 3 *Knack* applications per growing season.
- Do not exceed 48 fl oz of Knack per acre per season.
- Regardless of formulation do not exceed 0.327 lb pyriproxyfen per acre per season.
- Do not apply earlier than 14 days after last *Knack* treatment.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Knack* Insect Growth Regulator to three applications per growing season. *Knack* may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 13 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

BERRIES

GENERAL: *Knack* Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. *Knack* has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since *Knack* is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATE	SPECIAL INSTRUCTIONS
		PER ACRE	
Blackberry including	Cherry Fruitworm	16 fl oz	Apply with ground or air equipment as a
Bingleberry	Cranberry Fruitworm		full coverage spray (minimum of 5 gals/A
Black Satin Berry	Lecanium Scale		by air or 50 gals/A by ground). Thorough
Boysenberry			coverage is critical for adequate control. It
Cherokee Blackberry			is essential to use adequate water volume
Chesterberry			to ensure thorough coverage.
Cheyenne Blackberry			
Coryberry			Fruitworms: Apply when egg laying
Darrowberry			begins and again at petal fall. Additional
Dewberry			applications of another insecticide, at 10 to
Dirksen Thornless Berry			14 day intervals, may be needed under
Himalayaberry			high population pressure or sustained
Hullberry			moth flight.
Lavacaberry			
Lowberry			Lecanium Scale: Apply at either dormant,
Lucretiaberry			delayed dormant or an in-season cover
Mammoth Blackberry			spray. At dormant or delayed dormant use
Marionberry			a spray oil at the manufacturer's
Nectarberry			recommended oil rate. In a cover spray
Olallieberry			make applications when scale crawlers
Oregon Evergreen Berry			first emerge. Follow local
Phenomenalberry			recommendations regarding in-season use
Rangeberry			and rates of oil in your area.
Ravenberry			
Rossberry			
Shawnee Blackberry			
Youngberry	Knock may be mixed as	 nd/or alternated	with commonly used insecticides to comply
Blueberry			t (IPM) and Insect Resistance Management
Currant	(IRM) programs.	ssi wanayemen	t (IFIVI) and insect Resistance Management
Elderberry	(IIXIVI) Programs.		
Gooseberry	Do not apply within	7 days of barys	net .
Huckleberry	Do not apply within 7 days of harvest. Do not make more than 2 Knock applications per growing access.		
Juneberry	Do not make more than 2 <i>Knack</i> applications per growing season. Do not exceed 32 floor of <i>Knack</i> per growing season.		
Lingonberry Loganberry	Do not exceed 32 fl oz of <i>Knack</i> per acre per season. Do not exceed 32 fl oz of <i>Knack</i> per acre per season.		
,	Do not apply earlier than 14 days after last <i>Knack</i> treatment. Page of formulation do not avecad 0.318 lb purious for page are not presented.		
Raspberry, (black and red) Salal	Regardless of formulation do not exceed 0.218 lb pyriproxyfen per acre per season.		

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Knack* Insect Growth Regulator to two applications per growing season. *Knack* may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

BULB VEGETABLES

GENERAL: Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Knack is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Garlic Garlic, Great Headed Leek Onion, Dry Bulb Onion, Green Onion, Welsh Shallot	Onion Thrips	8 fl oz	FOR SUPPRESSION OF ONION THRIPS: Apply with ground equipment in adequate water for uniform coverage (20 to 50 gals/A). Begin applications when thrips reach threshold levels per University/Extension. Thorough coverage is critical for adequate water volume to ensure thorough coverage.
	 Do not apply within 3 days of harvest. Do not make more than 2 <i>Knack</i> applications per growing season. Do not exceed 16 fl oz of <i>Knack</i> per acre per season. Do not apply earlier than 14 days after last <i>Knack</i> treatment. Regardless of formulation do not exceed 0.134 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. 		

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FRUITING VEGETABLES

GENERAL: Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Knack is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Knack does exhibit translaminar movement which means that *Knack* applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Fruiting Vegetables: Eggplant Ground Cherry Okra Pepino Pepper Tomatillo Tomato	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz Do not apply less than 8 fl oz/A of Knack when used as a stand alone application.	Apply with air or ground equipment in adequate water for uniform coverage: By Air:	
			Only whole fields should be treated.	
	Banded Wing Whitefly Cabbage Looper Green Peach Aphid Greenhouse Whitefly (immatures & adults) Silverleaf Whitefly Sweetpotato Whitefly Tobacco Hornworm	6 to 8 fl oz + Orthene® 75 S 0.66 to 1.33 lbs/A or Orthene 97 0.5 to 1.0 lb/A	Apply as a tank mix with ground equipment for uniform coverage (25 to 150 gals/A by ground). Make application when eggs or insects first appear. If control is needed during this period, use an alternate insecticide registered for the target pest. Knack may also be mixed or alternated with commonly used insecticides to comply with local IPM programs. Comply with all applicable directions, restrictions and precautions on the registered labels for Orthene 75 S or Orthene 97.	
	 Do not apply within 1 day of harvest. Do not make more than 2 <i>Knack</i> applications per growing season. Do not exceed 20 fl oz <i>Knack</i> per acre per season. Do not apply earlier than 14 days after last <i>Knack</i> treatment. Regardless of formulation do not exceed 0.109 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. 			

continued

FRUITING VEGETABLES (continued)

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Fruiting Vegetables: Tomato	Banded Wing Whitefly Beet Armyworm Fruitworm Greenhouse Whitefly (immatures & adults) Potato Aphid Silverleaf Whitefly Sweetpotato Whitefly Thrips Tomato Pinworm Yellowstriped Armyworm	6 to 8 fl oz + Monitor® 4 Spray 24 fl oz + Danitol® 2.4 EC Spray 10-2/3 fl oz	EARLY SEASON WHITEFLY CONTROL PROGRAM FOR REDUCTION OF GEMINIVIRUS: Apply as a tank mix with ground equipment for uniform coverage (10 to 120 gals/A). Make application when scouting first indicates adult whiteflies are on young plants. NOTE: This may result in treatment immediately following transplanting. MID TO LATE SEASON WHITEFLY CONTROL PROGRAM FOR PREVENTION OF IRREGULAR FRUIT RIPENING: Apply as a tank mix with ground equipment for uniform coverage (20 to 120 gals/A by ground). Make application when scouting indicates whiteflies are present. Knack may also be mixed or alternated with commonly used insecticides to comply with local IPM programs. Comply with all applicable directions, restrictions and precautions on the registered labels for Monitor 4 Spray and Danitol 2.4 EC Spray.	
	 Do not apply within 14 days of harvest. Do not make more than 2 <i>Knack</i> applications per growing season. Do not exceed 16 fl oz <i>Knack</i> per acre per season. Do not apply earlier than 14 days after last <i>Knack</i> treatment. Regardless of formulation do not exceed 0.134 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. 			

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LEGUME VEGETABLES (Succulent or Dried)

GENERAL: Knack Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Knack has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Knack is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

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CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Beans (Lupinus): Grain Lupin Sweet Lupin White Lupin White Sweet Lupin Beans (Phaaseolus): Field Bean Kidney Bean Lima Bean Navy Bean Pinto Bean Runner Bean Snap Bean Tepary Bean Wax Bean Bean (Vigna): Adzuki Bean Asparagus Bean Blackeyed Pea Catjang Chinese Longbean Cowpea Crowder Pea Moth Bean Mung Bean Rice Bean Southern Pea Urd Bean Yardlong Bean Broad Bean (fava) Chickpea (garbanzo)	Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	with ground equipment in adequate water for uniform coverage (10 to 50 gals/A. Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
Guar Jackbean Lablab Bean	Integrated Pest Manager	ment (IPM) and Insec	ommonly used insecticides to comply with local ct Resistance Management (IRM) programs.
Lentil Pea (Pisum): Dwarf Pea Edible-podded Pea English Pea Field Pea Garden Pea Green Pea Snowpea Sugar Snap Pea Pigeon Pea Soybean Sword Bean	 Do not apply within 7 days of harvest. Do not make more than 2 <i>Knack</i> applications per growing season. Do not exceed 20 fl oz of <i>Knack</i> per acre per season. Do not apply earlier than 14 days after last <i>Knack</i> treatment. Regardless of formulation do not exceed 0.134 lb pyriproxyfen per acre per season. Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application. Do not allow livestock to graze treated areas. Do not use on legume vegetables varieties grown fro livestock feed. 		

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PAWPAW

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PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Scale Whitefly	13 to 16 fl oz	Apply 100 to 400 gals/A with ground equipment. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.
		Scale: Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. Do not use oil in an in-season spray.
		In a cover spray make applications when scale crawlers first emerge.
		Under heavy scale pressure, use the higher rate of Knack.

In-season sprays of *Knack* may not protect fruit from blemishes by scale.

Knack may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

- Do not apply within 14 days of harvest.
- Do not make more than 3 *Knack* applications per growing season.
- Do not exceed 48 fl oz of Knack per acre per season.
- Do not apply earlier than 14 days after last *Knack* treatment.
- Regardless of formulation do not exceed 0.327 lb pyriproxyfen per acre per season.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Knack* Insect Growth Regulator to three applications per growing season. *Knack* may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

PINEAPPLE

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PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	16 fl oz	Apply with ground equipment in 20 to 50 gals/A. Apply in sufficient water volume for plant size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage. Apply anytime prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 nd or 3 rd generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control. Knack may be applied with superior spray oils at 1/2 to 1%. Follow the manufacturer's directions and recommendations on timing and rates.

Knack may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

- Do not apply within 1 day of harvest.
- Do not make more than 2 Knack applications per calendar year.
- Do not exceed 32 fl oz of Knack per acre per season.
- Do not apply earlier than 21 days after last *Knack* treatment.
- Regardless of formulation do not exceed 0.134 lb pyriproxyfen per acre per season.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Knack* Insect Growth Regulator to two applications per growing season. *Knack* may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

POMEGRANATE

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PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	13 to 16 fl oz	Apply with air or ground equipment in adequate water for uniform coverage: By air: 3 to 10 gals/A By ground: 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Only whole fields should be treated.

- Do not apply within 14 days of harvest.
- Do not make more than 3 Knack applications per growing season.
- Do not exceed 48 fl oz of Knack per acre per season.
- Do not apply earlier than 14 days after last *Knack* treatment.
- Regardless of formulation do not exceed 0.327 lb pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.

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ROOT AND TUBER VEGETABLES

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CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Arracacha Arrowroot Artichoke, Chinese Artichoke, Jerusalem Beet, Garden Beet, Sugar Burdock, Edible Canna, Edible Carrot Cassava, (bitter and sweet) Celeriac Chaoyote (root) Chervil, Turnip-rooted Chicory Chufa Dasheen (taro) Ginger Ginseng Horseradish Leren Parsley, Turnip-rooted Parsnip Potato Radish	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 fl oz	Apply with ground equipment in adequate water for uniform coverage (20 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
Radish, Oriental Rutabaga Salsify Salsify, Black Salsify, Spanish Skirret Sweet Potato Tanier Turmeric Turnip Yam, Bean Yam. True	 Do not apply within 3 days of harvest. Do not make more than 2 <i>Knack</i> applications per growing season. Do not exceed 16 fl oz of <i>Knack</i> per acre per season. Do not apply earlier than 14 days after last <i>Knack</i> treatment. Regardless of formulation do not exceed 0.109 lb pyriproxyfen per a season. Do not plant any crop other than those with registered pyriproxyfen treated areas sooner than 30 days after the last application. Do not allow livestock to graze treated areas. 		

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting *Knack* Insect Growth Regulator to two applications per growing season. *Knack* may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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